



## Supplementary Materials for

### **Phosphofructokinase 1 Glycosylation Regulates Cell Growth and Metabolism**

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PDB coordinates of the lowest-energy glycosylated PFK1 structure

References (30–44)

## MATERIALS AND METHODS

**Cell culture and tumor tissues.** The cell lines 293T, A549, H1299, LNCaP, MCF-10A, MCF-7, MDA-mb-231, PrEc, DU145, HepG2, HCT15, HeLa and human dermal fibroblasts were obtained from ATCC and cultured according to ATCC protocols. MCF-10AT cells were obtained from the Barbara Ann Karmanos Cancer Institute (Detroit, MI). MCF10-DCIS.com cells were purchased from Asterand, Inc. Both MCF-10AT and MCF10-DCIS.com cells were cultured in Dulbecco's modified Eagle media (DMEM)/F12 (1:1) medium (Invitrogen) with 5% horse serum (Invitrogen), 0.029 M sodium bicarbonate, 10 mM HEPES, 10  $\mu\text{g ml}^{-1}$  insulin (Sigma-Aldrich), and 0.5  $\mu\text{g ml}^{-1}$  hydrocortisone (Sigma-Aldrich).

Breast tumor tissues and matching tumor-adjacent normal tissues from the same patient were obtained from Agios Pharmaceuticals (Cambridge, MA). Lung tumor tissues and matching tumor-adjacent normal tissues from the same patient were obtained from the Tumor and Tissue Bank, University of Massachusetts Medical School.

**Immunoblotting.** Cells were lysed in SDS lysis buffer (1% SDS, 50 mM Tris-HCl, pH 7.5, 100 mM NaCl, 10  $\mu\text{M}$  PUGNAc, and Complete<sup>™</sup> protease inhibitors (Roche)), and the lysate was resolved by 4-12% SDS-PAGE, transferred to Immobilon-FL PVDF membrane (Millipore), and immunoblotted with the indicated antibodies. Antibodies used in this study were obtained from the following sources: *O*-GlcNAc antibody (RL-2, Affinity BioReagents, 1:1000 working dilution), PFK1 antibody (Santa Cruz Biotechnology, 1:1000 working dilution), Flag antibody (Sigma-Aldrich, 1:5000 working

dilution), Myc antibody (Sigma-Aldrich, 1:5000 working dilution), OGT antibody (DM-17, Sigma-Aldrich, 1:1000 working dilution), OGA antibody (Sigma-Aldrich, 1:1000 working dilution), and tubulin antibody (Sigma-Aldrich, 1:5000 working dilution). All protein concentrations were measured using the BCA protein assay (Pierce). Western blots were visualized and quantified using an Odyssey Infrared Imaging System (LI-COR Biosciences, Version 2.1).

**Modulation of cellular *O*-GlcNAc levels.** For OGT overexpression experiments, H1299, A549, or 293T cells were transiently transfected with a pDEST26/HA-OGT vector (provided by L. Wells) (30) using Lipofectamine 2000 reagent (Invitrogen) according to the manufacturer's protocol. Cells were collected 36 h after transfection, lysed in SDS lysis buffer containing 5  $\mu$ M *O*-(2-acetamido-2-deoxy-D-glucopyranosylidene)amino *N*-phenylcarbamate (PUGNAc; Toronto Research Chemicals), and immunoblotted for *O*-GlcNAc levels. For PUGNAc treatments to enhance *O*-GlcNAc levels, cells cultured in DMEM high glucose media (with 10% FBS, penicillin/streptomycin (100 U ml<sup>-1</sup>; Invitrogen) or RPMI 1640 media (with 10% FBS, penicillin/streptomycin (100 U ml<sup>-1</sup>; Invitrogen) were treated with PUGNAc (100  $\mu$ M) for 9 h and then immunoblotted for *O*-GlcNAc levels. OGT overexpression and PUGNAc treatment did not affect cell viability, as determined by trypan blue exclusion.

**Cellular metabolism measurements.** Cellular glycolytic rates were measured by following the conversion of 5-<sup>3</sup>H-glucose to <sup>3</sup>H<sub>2</sub>O as described (31). Briefly, cells (H1299, A549, 293T, and various H1299 PFK1 rescue cells, in the presence or absence

of OGT overexpression) were cultured overnight in appropriate complete culture media (DMEM or RPMI 1640, supplemented with 10% FBS, penicillin/streptomycin (100 U ml<sup>-1</sup>)) at a concentration of  $2 \times 10^6$  cells per well in a 6-cm tissue culture plate. The cells were washed once in phosphate buffered saline (PBS) and incubated in Krebs buffer (126 mM NaCl, 2.5 mM KCl, 25 mM NaHCO<sub>3</sub>, 1.2 mM NaH<sub>2</sub>PO<sub>4</sub>, 1.2 mM MgCl<sub>2</sub>, 2.5 mM CaCl<sub>2</sub>) for 30 min at 37 °C. The buffer was replaced with fresh Krebs buffer containing 10 mM glucose dosed with 10 µCi of 5-<sup>3</sup>H-glucose. After 1 h, the amount of <sup>3</sup>H<sub>2</sub>O generated was determined using a diffusion chamber as described (31). Cellular lactate production was measured using a colorimetric-based assay kit (BioVision) according to the manufacturer's protocol. Briefly, the cells described above were cultured in complete media containing 10 mM glucose overnight. On the day of the experiment, the media was replaced with fresh media (without FBS). After 1 h, lactate levels were measured from media aliquots on a Victor 3 micro-plate reader (Perkin Elmer) and normalized for cell number. Intracellular ATP concentrations were measured using CellTiter-Glo Luminescent Assay kit (Promega). Luminescence was recorded on a Victor 3 micro-plate reader and normalized to protein concentration. For experiments involving PUGNAc treatments, PUGNAc (100 µM) was added to the cell culture medium 9 h before the measurements were carried out. For experiments involving hypoxic treatments, cells were cultured at 30% confluency under hypoxic conditions (0.5% O<sub>2</sub>, 5% CO<sub>2</sub>, and 94.5% N<sub>2</sub>) at 37 °C for 24 h before the measurements were carried out.

**Generation of PFK1 expression vectors for transient mammalian cell expression.**

Flag-tagged WT human PFK1 (L isoform) cDNA (ATCC, NCBI accession

#NM\_002626) was cloned into the expression vector pFLAG-CMV-6a (Sigma-Aldrich). Myc-tagged PFKP and PFKM expression clones (both subcloned in pCMV6-Entry) were obtained from Origene. The S529A and T527A PFKL mutants were generated using the QuikChange II Site Directed Mutagenesis Kit (Agilent Technologies).

**Generation of stable cell lines.** To generate the PFK1 rescue H1299 cell lines, Flag-tagged WT PFK1 and S529A PFK1 (L isoform) were cloned into the expression vector pLenti6.2/V5-DEST (Invitrogen). The PFK1 sequence was made resistant to the PFK1 shRNA by introducing silent mutations (lower case: CCTAGTaGGaagCATCGAcAA) using the QuikChange II Site Directed Mutagenesis Kit. Lentiviruses were produced from these constructs using a three-plasmid packaging system as described (32). H1299 cells were infected with the lentiviruses and selected with blasticidin ( $10 \mu\text{g ml}^{-1}$ , Invitrogen) for 1 week. To knockdown endogenous PFK1 in these cells, the shRNA sequence 5' – CCTAGTGGGCTCCATCGATAA – 3' (obtained from the RNAi Consortium) or the corresponding scramble sequence 5' – AGTCCTTAGTCGAATCAGCCG – 3' was inserted into the vector pLKO.1 (Addgene). Lentiviruses containing the PFK1 or scramble shRNA construct were obtained as describe above. H1299 cells stably expressing WT or S529A Flag-tagged PFK1 were infected with lentiviruses containing the PFK1 or scramble shRNA constructs and selected with puromycin ( $2 \mu\text{g ml}^{-1}$ ) for 2 weeks.

To stably knockdown OGT in 293T and H1299 cells, the following OGT targeting shRNA sequence was inserted into the pLKO.1 vector: 5' – CCAAACCTTTCTGGATGCTTAT – 3'. The scramble sequence was 5' –

TTCGATCTCAATTGCTATCGA – 3'. Cells were infected with lentiviruses containing the OGT or scramble shRNA constructs and selected with puromycin ( $2 \mu\text{g ml}^{-1}$ ) as described above. OGT expression was knocked down by approximately 75% using shRNA, and no deleterious effects on cell viability were observed over the 24 h period of our experiments, as determined by trypan blue exclusion and ATP levels.

To obtain WT or S529A PFK1 (L isoform) H1299 rescue cells overexpressing OGT, human OGT cDNA (nucleocytoplasmic long form, ncOGT, Open Biosystems, NCBI accession #BC014434.1) was cloned into the pcDNA3.1/Hygro vector (Invitrogen), transfected into cells using Lipofectamine 2000 reagent, and selected with hygromycin ( $400 \mu\text{g ml}^{-1}$ ) for 2 weeks. Colonies were selected for the highest expression levels of OGT, as determined by immunoblotting.

**Analysis of PFK1 glycosylation.** Chemoenzymatic labeling and biotinylation of proteins in cell lysates were carried out as described previously (15). Briefly, cell lines and tissues were lysed in lysis buffer (1% SDS, 50 mM Tris-HCl, pH 7.5, 100 mM NaCl, 10  $\mu\text{M}$  PUGNAc, and Complete<sup>™</sup> protease inhibitors (Roche)). The cell lysate (400  $\mu\text{g}$ ) was labeled according to the Click-iT O-GlcNAc Enzymatic Labeling System protocol (Invitrogen) and conjugated with an alkyne-biotin compound as per the Click-iT Protein Analysis Detection Kit protocol (Invitrogen). Control experiments were carried out in parallel in the absence of the labeling enzyme GalT. Biotinylated lysates were precipitated using methanol and chloroform as described in the Click-iT Protein Analysis Detection Kit protocol, resolubilized in 1% SDS, and neutralized with an equal volume of neutralization buffer (6% NP-40, 100 mM  $\text{Na}_2\text{HPO}_4$ , 150 mM NaCl). Lysates were then

incubated with streptavidin resin (Pierce) with end-to-end rotation at 4 °C overnight. Resin was then washed 5 times with 1 ml of low salt buffer (100 mM Na<sub>2</sub>HPO<sub>4</sub>, 150 mM NaCl, 0.1% SDS, 1% Triton X-100, 0.5% sodium deoxycholate) and 5 times with 1 ml of high salt buffer (100 mM Na<sub>2</sub>HPO<sub>4</sub>, 500 mM NaCl, 0.2% Triton X-100). Biotinylated proteins were eluted by boiling the resin in 50 mM Tris-HCl pH 6.8, 2.5% SDS, 100 mM DTT, 10% glycerol and 20 mM biotin for 10 min. To quantify the percentage of glycosylation, the intensity of the band eluted from resin (the glycosylated protein fraction) and the band from the input (the total protein) were measured. The ratio of the intensity (corrected with the percentage of protein input) was taken as the glycosylation stoichiometry.

Chemoenzymatic labeling of PFK1 with a 5-kD PEG mass tag was carried out as described (18). The labeled lysates were subjected to 4-12% SDS-PAGE and immunoblotted. An antibody to Flag was used to determine the percentage of glycosylation on Flag-tagged PFK1. To quantify the percentage of glycosylation, the intensity of the PEG-shifted band (the glycosylated protein fraction) and the unshifted band (the non-glycosylated protein fraction) were measured and the ratio of the intensity of the glycosylated protein fraction over the intensity of the total protein (glycosylated protein fraction plus non-glycosylated protein fraction) was taken as the glycosylation stoichiometry.

**PFK1 purification and enzymatic assay.** Human PFK1 isoforms (Flag-tagged PFKL, Myc-tagged PFKP and Myc-tagged PFKP) were individually transiently transfected into 293T cells using Lipofectamine 2000. To purify Flag-tagged PFKL, cells were lysed 36 h

after transfection in Triton X-100 lysis buffer (50 mM Tris-HCl, pH 7.4, 150 mM NaCl, 1% Triton X-100, 5  $\mu$ M PUGNAc and Complete<sup>™</sup> protease inhibitor cocktail). The lysate (7 mg) was diluted to 2 mg ml<sup>-1</sup> with NETFS buffer (100 mM NaCl, 50 mM Tris-HCl pH 7.4, 5 mM EDTA, 5  $\mu$ M PUGNAc and Complete<sup>™</sup> protease inhibitor cocktail). The sample was incubated with Flag M2 immunoaffinity resin (400  $\mu$ l; Sigma-Aldrich) at 4 °C overnight with end-to-end rotation. The gel was then washed twice with 10 ml of NETFS containing 1% Triton X-100, and twice with 10 ml of NETFS. The Flag-PFK1 protein was eluted with the 3 $\times$ Flag peptide (Sigma-Aldrich) in NETFS buffer according to the manufacturer's protocol. The eluent was further purified and concentrated using an Amicon Ultra Centrifugal Filter (10-kD molecular weight cutoff; Millipore) in a buffer containing 50 mM Tris-HCl pH 7.5, 100 mM KCl, 5 mM MgCl<sub>2</sub> and 5% glycerol.

To purify Myc-tagged PFKP and PFKM, transfected cells were lysed in the same lysis buffer as described above. The samples were incubated with Myc immunoaffinity resin (100  $\mu$ l; Sigma-Aldrich) at 4 °C overnight with end-to-end rotation. The resin was then washed three times with 2 ml of PBS. The Myc-PFK1 proteins were eluted with 5 ml of 0.1 M NH<sub>4</sub>OH according to the manufacturer's protocol. The eluent was neutralized with 1 N acetic acid and further purified and concentrated using an Amicon Ultra Centrifugal Filter (10-kD molecular weight cutoff) in a buffer containing 50 mM Tris-HCl pH 7.5, 100 mM KCl, 5 mM MgCl<sub>2</sub> and 5% glycerol.

PFK1 activity was measured with slight modifications to the described procedure (33). Briefly, the reaction was performed using either cell lysate (20  $\mu$ g) or recombinant purified PFK1 (0.1  $\mu$ g) in 1 ml of reaction buffer containing 50 mM Tris-HCl pH 7.5, 100 mM KCl, 5 mM MgCl<sub>2</sub>, 1 mM ATP, 0.2 mM NADH, 5 mM Na<sub>2</sub>HPO<sub>4</sub>, 0.1 mM



AMP, 1 mM NH<sub>4</sub>Cl, 5 mM fructose-6-phosphate, 5 U of triose phosphate isomerase (Sigma-Aldrich), 1 U of aldolase (Sigma-Aldrich) and 1 U of  $\alpha$ -glycerophosphate dehydrogenase (Sigma-Aldrich). Absorbance was recorded at 340 nm at room temperature every 15 s for 10 min using a Uvikon UV-Vis spectrophotometer (Research Instruments International). One unit of PFK1 activity is defined as the amount of enzyme that catalyzes the conversion of 1  $\mu$ mol of fructose-6-phosphate to fructose-1,6-bisphosphate per min.

To determine the activation of PFK1 by F-2,6-BP (Sigma-Aldrich) over the indicated concentrations, reactions were performed in similar buffer conditions as described above except that an inhibitory concentration of ATP (3 mM) was used. In experiments to determine the allosteric regulation by ATP, reactions were performed in similar buffer conditions with a fixed F-2,6-BP concentration of 100 nM, and ATP concentrations from 0.05 to 10 mM.

**Enzymatic assays of hexokinase (HK), phosphoglycerate kinase (PGK) and pyruvate kinase (PK).** Endogenous HK, PGK and PK from 293T cell lysates were used directly for the determination of enzyme activities. HK reactions were carried out using 20  $\mu$ g of 293T cell lysate in 1 ml of reaction buffer containing 50 mM Tris-HCl pH 7.5, 10 mM MgCl<sub>2</sub>, 0.6 mM ATP, 100 mM glucose, 0.2 mM NAD<sup>+</sup>, and 10 U of glycerol-6-phosphate dehydrogenase (Sigma-Aldrich). Absorbance was recorded at 340 nm at room temperature every 15 s for 10 min as described above. PGK reactions were carried out using 20  $\mu$ g of 293T cell lysate in 1 ml of reaction buffer containing 50 mM Tris-HCl pH 7.5, 5 mM MgCl<sub>2</sub>, 5 mM ATP, 0.2 mM NADH, 10 mM glycerol-3-phosphate, and 10 U

of GAPDH (Sigma-Aldrich). Absorbance was recorded at 340 nm at room temperature every 15 s for 10 min as described above. PK reactions were carried out with 10 µg of 293T cell lysate in 1 ml of reaction buffer containing 50 mM Tris-HCl pH 7.5, 100 mM KCl, 5 mM MgCl<sub>2</sub>, 0.6 mM ADP, 0.5 mM PEP, 0.18 mM NADH, 0.01 mM fructose-1,6-bisphosphate, and 10 U of lactate dehydrogenase (Sigma-Aldrich). Absorbance was recorded at 340 nm at room temperature every 15 s for 10 min as described above.

**Hypoxic and glucose deprivation treatment.** Hypoxia experiments were performed using a sealed hypoxia chamber (Proox Model 110, BioSpherix, Ltd.) filled with 0.5% O<sub>2</sub>, 5% CO<sub>2</sub>, and 94.5% N<sub>2</sub> at 37 °C and 30% cell confluency for the indicated periods of time. For glucose deprivation experiments, H1299 cells were seeded at a density of  $1 \times 10^5$  cells ml<sup>-1</sup> in a 6-well tissue culture plate. The cells were cultured in RPMI 1640 media overnight before switching to RPMI 1640 media without glucose (Sigma-Aldrich) for the indicated periods of time.

**Mouse T lymphocyte isolation and activation.** The spleens were dissected from mice (C57BL/6, male, Charles River Laboratories) and placed in a clean 10-cm tissue culture dish containing 10 ml of RPMI 1640 media supplemented with 5% FBS and penicillin/streptomycin (100 U ml<sup>-1</sup>). The spleens were disrupted, and the cells were passed through a 40-micron cell strainer (Fisher Scientific) and collected by centrifugation at 1500 rpm for 8 min. The supernatant was discarded, and the cells were resuspended in 6 ml of PBS buffer containing 0.1% BSA and 2 mM EDTA. Cell numbers were counted under a microscope by trypan blue staining. T cells were then isolated

using the Dynal Mouse T Cell Negative Isolation Kit (Invitrogen) according to the manufacturer's protocol and plated at a density of  $1 \times 10^6$  cells  $\text{ml}^{-1}$  in RPMI 1640 media supplemented with 5% FBS and penicillin/streptomycin ( $100 \text{ U ml}^{-1}$ ).

Activation and expansion of T cells was performed using Dynabeads Mouse T-Activator CD3/CD28 (Invitrogen) according to the manufacturer's recommendation, as well as  $30 \text{ U ml}^{-1}$  of recombinant mouse interleukin-2 (Invitrogen). The cells were incubated in a humidified  $\text{CO}_2$  incubator at  $37^\circ\text{C}$  for 72 h. Cell numbers were determined by measuring intracellular ATP levels using the CellTiter-Glo Luminescent Cell Viability Assay Kit (Promega) according to the manufacturer's protocol.

#### **Culturing of human dermal fibroblasts and analysis of cell cycle by flow cytometry.**

Primary human dermal fibroblasts (ATCC) were maintained in DMEM media supplemented with 10% FBS and penicillin/streptomycin ( $100 \text{ U ml}^{-1}$ ). Proliferating cells were seeded at a density of  $1 \times 10^5$  cells  $\text{ml}^{-1}$  and subcultured when they reached confluency. Cells were made quiescent via contact inhibition (34) by maintaining them at confluency in the above DMEM media for 1 week. Cells were harvested in PBS buffer containing 5% FBS, pelleted, resuspended in ice-cold 70% ethanol (1 ml per  $1 \times 10^6$  cells), and stored at  $4^\circ\text{C}$  overnight. Cells were pelleted, washed twice with PBS, and resuspended in PBS containing  $100 \mu\text{g ml}^{-1}$  ribonuclease A (Sigma-Aldrich). Samples were incubated at room temperature for 1 h. Propidium iodide (PI, Sigma-Aldrich) was added to the samples at a final concentration of  $50 \mu\text{g ml}^{-1}$ , and the samples were incubated in the dark at room temperature for 1 h.

Treated samples were analyzed using a Becton Dickinson FACSCalibur flow cytometer equipped with a 488 nm argon laser. Propidium iodide was excited at 488 nm, and emitted fluorescence was collected and triggered on detector FL2 with a bandpass filter of 585/42 nm. Samples were gated by forward scatter against right angle light scatter and a secondary gate placed around the single cell population on a pulse area versus pulse width FL2 signal processing dot plot to gate out doublets. At least 10,000 cells were collected, and the cell cycle distribution was analyzed with FlowJo off-line software (Treestar).

**Site-mapping of PFK1 glycosylation.** Flag-tagged PFKL and HA-tagged OGT were co-transfected in 293T cells using Lipofectamine 2000. After 36 h, Flag-tagged PFKL was isolated from the cells using Flag M2 immunoaffinity resin as described above. The bound protein was eluted in a buffer (4% SDS and 100 mM Tris-HCl, pH 8.0). After SDS-PAGE (4-12% Bis-Tris gels) and staining with Bio-Safe Coomassie blue R250 Stain (0.25%; Bio-Rad), the PFKL protein band was excised and manually digested in-gel with chymotrypsin as previously described (15). The extracted peptides were lyophilized and reconstituted in 1X binding buffer (Glycoprotein Isolation Kit WGA, Thermo Scientific) and incubated with WGA lectin resin (Glycoprotein Isolation Kit WGA, Thermo Scientific) at 4 °C with end-to-end rotation overnight. The resin was washed according to the manufacturer's protocol, and the bound peptides were eluted with the provided elution buffer. The eluent was further purified by reverse-phase HPLC (Agilent 1100) using a preparative reverse-phase column (Agilent Eclipse XDB-C18; 5  $\mu$ m, 9.4 x 250 mm) and a gradient of 5-30% B buffer over 20 min at 4 ml min<sup>-1</sup> (A buffer,

0.5% aqueous AcOH; B buffer, 100% MeCN). Fractions eluting between 5-12 min were collected, pooled, lyophilized, and subjected to ETD-MS analysis as described (10).

**PFK1 structure modeling.** To model the F-2,6-BP binding site in rabbit PFK, the following PDB files were used: *Saccharomyces cerevisiae* PFK  $\alpha_4\beta_4$  octamer co-crystallized with F-2,6-BP (3O8O, chains C, D), rabbit skeletal muscle PFK crystallized without F-2,6-BP (3O8L) (35). The rabbit PFK homology model was determined by aligning chain B of the rabbit PFK with chain C of the yeast PFK, and aligning chain A of the rabbit PFK with chain D of the yeast PFK (RMSD: 1.684 and 1.727 Å, respectively) and minimizing this structure as previously described (36). F-2,6-BP was extracted from the PDB file 3O8O, hydrogen atoms were added, and charges were assigned to each atom using the charge equilibration (QEq) method (37). The F-2,6-BP was fully minimized under conditions of Surface Generalized Born (SGB) continuum solvation (37), was combined with the minimized rabbit PFK homology model, and the combined structure was minimized under conditions of SGB continuum solvation. Residues within 5 Å of F-2,6-BP were considered part of the F-2,6-BP binding site.

To model *O*-GlcNAc glycosylation of rabbit PFK at Ser<sup>530</sup>, *N*-acetyl-glucosamine was extracted from PDB file 1E6Z (NAG 1) and was prepared as described for F-2,6-BP above. MoleculeGL (38) was used to create 959 conformations of the *O*-GlcNAc residue, and each conformation was modeled into the minimized rabbit PFK homology model at Ser<sup>530</sup>. Each of the glycosylated structures was minimized for 50 steps under conditions of SGB continuum solvation (37). Side chains within 4 Å of the *O*-GlcNAc residues in the top 50 lowest energy structures were optimized (39), and then the

structures were fully minimized under conditions of SGB continuum solvation (37). The five lowest energy structures following complete minimization were considered as models of glycosylated PFK. Pymol was used to perform all alignments and distance measurements and to create the images. The final coordinates of the optimum structure are attached.

**Generation of low and high glycoforms of PFK1.** 293T cells were transiently transfected with Flag-tagged PFKL, Myc-tagged PFKP, or Myc-tagged PFKM. To enhance levels of glycosylation, the transfected cells were grown to 30% cell confluency under hypoxic conditions (0.5% O<sub>2</sub>, 5% CO<sub>2</sub>, and 94.5% N<sub>2</sub>) at 37 °C for 24 h. Alternatively, 293T cells were transiently co-transfected with Flag-tagged PFKL and HA-OGT, and cultured in complete high glucose DMEM media under hypoxic conditions (1% O<sub>2</sub>, 5% CO<sub>2</sub>, and 94% N<sub>2</sub>) at 37 °C for 24 h. PUGNAc (100 µM) was added to the cell culture 9 h before the cells were harvested. Forms of Flag-tagged PFKL, Myc-tagged PFKP, or Myc-tagged PFKM containing low glycosylation levels were obtained by culturing the transfected cells under normoxic conditions. PFK1 proteins were purified using Flag M2 or Myc immunoaffinity resin as described above. Similar experiments were performed using the Flag-tagged S529A mutant PFKL construct. Glycosylation levels were analyzed by chemoenzymatic labeling with a 5-kD mass tag, and PFK1 activities were measured on the purified proteins as described above.

**Analysis of PFK1 oligomerization.** Flag-tagged PFK1 (L isoform) was transiently expressed in 293T cells with or without co-expression of HA-tagged OGT. After 36 h,

Flag-tagged PFK1 was isolated from the lysate using Flag M2 immunoaffinity resin and eluted with a 3×Flag peptide as described above. The eluent was concentrated using Amicon Ultra Centrifugal Filters (10-kD molecular weight cutoff). Similarly, 293T cells expressing Flag-tagged PFK1 were treated with PUGNAc (100  $\mu$ M, 12 h) or cultured under hypoxic conditions (0.5% O<sub>2</sub>, 5% CO<sub>2</sub>, and 94.5% N<sub>2</sub>) at 37 °C for 24 h, before protein isolation. As a control, heat treatment of PFK1 in the presence or absence of 50 nM F-2,6-BP was performed at 50 °C for 30 min. The proteins were then subjected to native gel electrophoresis (Bio-Rad) and visualized by Coomassie blue staining as described above.

PFK1 oligomerization was analyzed by co-immunoprecipitation as follows: WT or S529A PFKL containing 3 consecutive Flag tags was cloned into the expression vector pCAG-3Flag (provided by B. Zhuang) and transiently expressed in 293T cells with or without co-expression of HA-tagged OGT. Cells were lysed 36 h after transfection in Triton X-100 lysis buffer. The Flag-tagged proteins were then immunoprecipitated using Flag M2 immunoaffinity resin as described above, eluted in 100 mM Tris-HCl, pH 8.0 containing 4% SDS, subjected to SDS-PAGE and PVDF transfer, and immunoblotted with the indicated antibodies.

**Analysis of the pentose phosphate pathway (PPP) activity, and determination of NADPH and GSH levels.** PPP activity was determined by following the procedure as described (40). Briefly, 2 x 10<sup>6</sup> cells (WT or S529A PFK1 H1299 rescue cells, with or without OGT overexpression) were grown in a 6-cm culture plate in sodium bicarbonate-free RPMI medium supplemented with 10% FBS, 20 mM HEPES, 5 mM glucose and 0.2

$\mu\text{Ci}$  of  $[1-^{14}\text{C}]$ -glucose or  $[6-^{14}\text{C}]$ -glucose (American Radiolabeled Chemicals). The cells were placed in a closed glass vial, the center of which was covered with filter paper soaked in 100  $\mu\text{l}$  of 5% KOH, and incubated at 37 °C for 4 h. The filter paper was removed, and the radioactivity was determined using a LS 6500 Multi-Purpose Scintillation Counter (Beckman Coulter). PPP activity was calculated as the difference between the radioactivity levels of samples obtained from  $[1-^{14}\text{C}]$ -glucose and samples obtained from  $[6-^{14}\text{C}]$ -glucose, normalized to cell number.

NADPH levels were determined using a colorimetric  $\text{NADP}^+/\text{NADPH}$  Quantitation Kit (BioVision) according to the manufacturer's protocol. The signal at 450 nm was recorded using a Victor 3 micro-plate reader and normalized to protein concentration. GSH levels were measured using a Glutathione Assay Fluorimetric Kit (Sigma-Aldrich) according to the manufacturer's procedure. Fluorimetric signal was recorded on a Victor 3 micro-plate reader and normalized to protein concentration.

**Cell preparation for metabolomic analysis of PPP flux.** WT or S529A PFK1 H1299 rescue cells (with or without OGT overexpression) were seeded at a concentration of 200,000 cells per well in a 6-well tissue culture plate and grown in complete RPMI 1640 culture medium for 24 h. The medium was changed to RPMI 1640 medium supplemented with 5 mM glucose and 2 mM glutamine, and the cells were allowed to grow for 16 h. The cells were then incubated for 3 h with fresh RPMI 1640 medium supplemented with 5 mM glucose and 2 mM glutamine before replacing the unlabeled medium with the corresponding labeled medium (RPMI 1640 supplemented with 5 mM  $[1,2-^{13}\text{C}]$ -glucose and 2 mM glutamine). After incubation for 4 h, the medium was aspirated, and the cells



were washed twice with cold PBS. Pre-chilled 80% aqueous methanol (-80 °C; 1 ml) was quickly added to each well. Cells were scraped off the well and transferred into microcentrifuge tubes. The extraction was repeated, and both fractions were combined and centrifuged at 20,000 xg for 2 min. Supernatants were obtained and dried by speedvac.

**LC-MS and flow-injection-analysis mass spectrometry for metabolomics.** Cell extracts obtained as described above were analyzed for relative abundance of <sup>13</sup>C-metabolites by liquid chromatography-triple quadrupole mass spectrometry (LC-MS) using scheduled selective reaction monitoring (SRM) for each metabolite of interest, with the detector set to negative mode (41). Prior to injection, dried extracts were reconstituted in LC-MS grade water. LC separation was achieved by reverse-phase ion-pairing chromatography as described (42). Extracted metabolite concentrations were calculated from standard metabolite build-up curves using natural <sup>12</sup>C synthetic metabolites and normalized against cell number as well as the internal <sup>13</sup>C-labeled metabolite standards added at the time of metabolite extraction. Calculations for relative percentage of PPP flux were as described (43).

For flow-injection analysis for metabolomics, the data were acquired according to the method described previously (29). Briefly, the platform consisting of an Agilent Series 1100 LC pump coupled to an Agilent 6520 Series Quadrupole Time-of-flight mass spectrometer (Agilent) equipped with an electrospray source operated in negative and positive mode. The flow rate was 150 µl min<sup>-1</sup> of mobile phase consisting of isopropanol/water (60:40, v/v) buffered with 5 mM ammonium carbonate at pH 8.5.

Mass spectra were recorded from  $m/z$  50 to 1000 with a frequency of 1.4 spectra/s for 0.48 min using the highest resolving power (4 GHz HiRes). All steps of data processing and analysis were performed with Matlab R2010b (The Mathworks, Natick) using functions native to the Bioinformatics, Statistics, Database, and Parallel Computing toolboxes.

#### **Measurement of reactive oxygen species (ROS) levels and H<sub>2</sub>O<sub>2</sub>-mediated cell death.**

The redox-sensitive dye 5(6)-chloromethyl-2',7'-dichlorodihydrofluorescein diacetate-acetyl ester (CM-H<sub>2</sub>DCFDA; Molecular Probes) was used to measure ROS levels in cell lines as previously described (44). Briefly, cells (H1299 cells with or without OGT overexpression) were cultured overnight at a concentration of  $4 \times 10^5$  cells per well in a 12-well tissue culture plate in complete RPMI 1640 media supplemented with 10% FBS, penicillin/streptomycin (100 U ml<sup>-1</sup>). After treating cells with various concentrations of diamide (Sigma-Aldrich) as indicated for 10 min, fresh culture medium was added. The cells were then incubated with 10  $\mu$ M CM-H<sub>2</sub>DCFDA for 20 min and rinsed three times with PBS. The cells were lysed in 1% SDS and sonicated. The mixture was centrifuged (15,000  $\times g$ , 2 min) to remove any cell pellets. 100- $\mu$ l aliquots were taken, and the fluorescence intensity was measured on a Victor 3 micro-plate reader. Signal intensity was normalized to protein concentration.

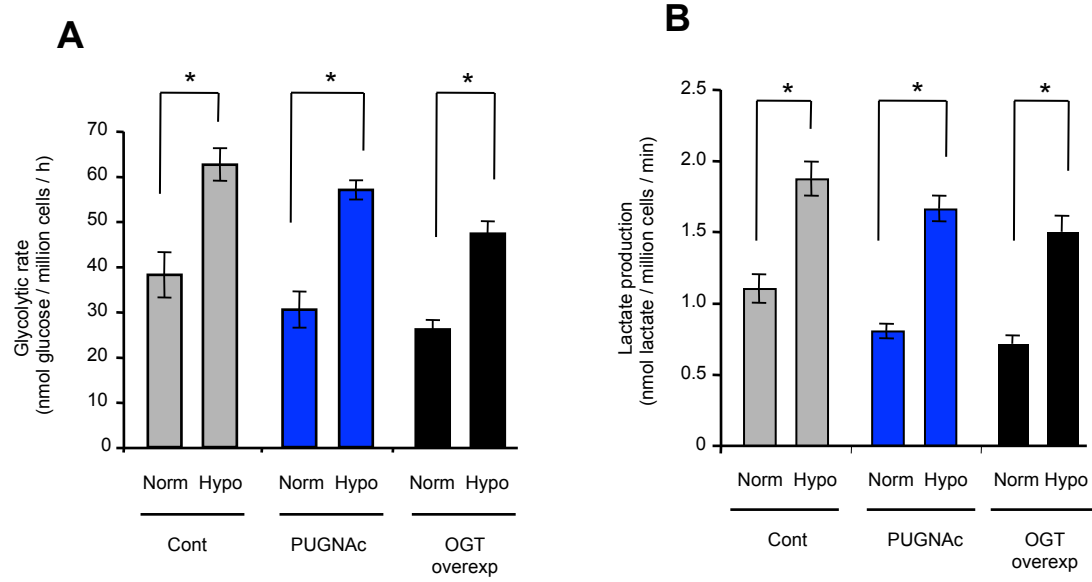
The percentage of cell death was measured using a lactate dehydrogenase (LDH)-based toxicology assay (Sigma-Aldrich) according to the manufacturer's protocol. Briefly, cells (H1299 cells with or without OGT overexpression) were cultured overnight at a concentration of  $2 \times 10^5$  cells per well in a 96-well tissue culture plate. The culture

media (complete RPMI 1640, supplemented with 10% FBS, penicillin/streptomycin (100 U ml<sup>-1</sup>)) was replaced with fresh media without FBS, and the cells were treated with the indicated concentrations of H<sub>2</sub>O<sub>2</sub> for 30 min. Control experiments without the H<sub>2</sub>O<sub>2</sub> treatment were carried out in parallel for measuring total cell numbers. The percentage of cell death was determined by comparing the amount of cytoplasmic LDH released into the culture medium relative to the total cytoplasmic LDH, as determined by the reduction of NAD<sup>+</sup>.

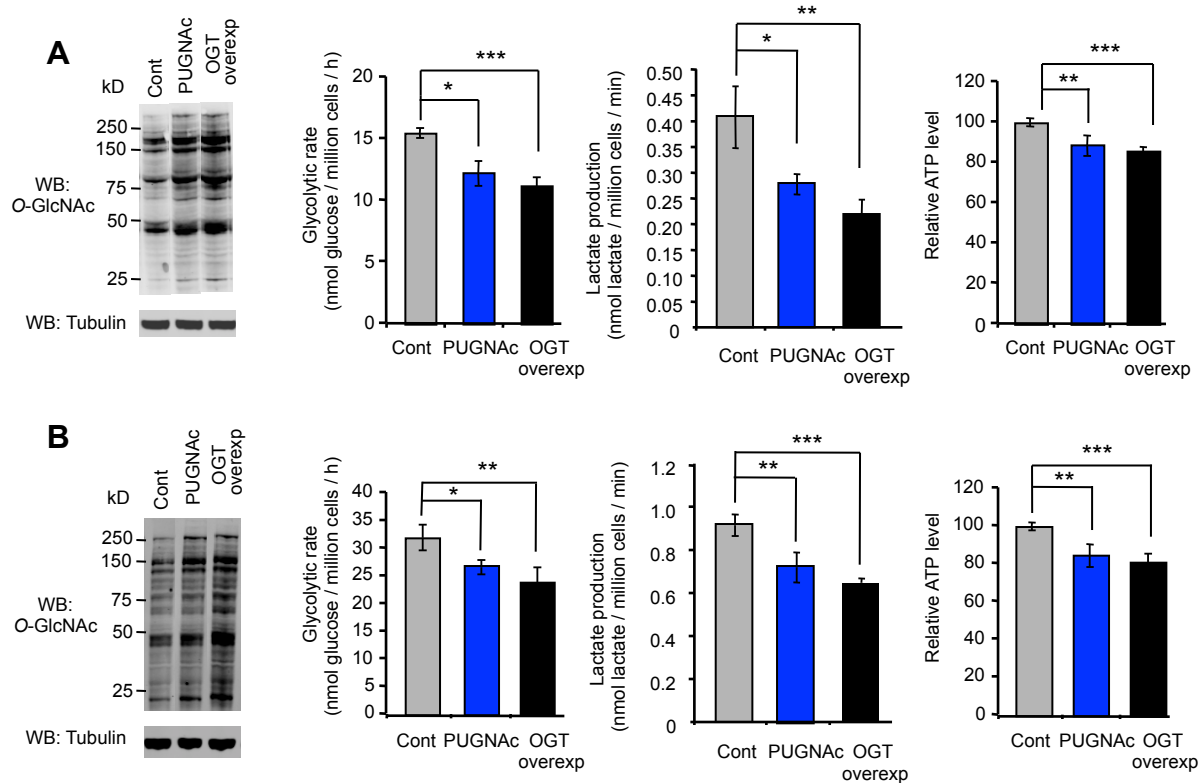
**Cell proliferation analysis.** Cell proliferation assays were performed using a CellTiter-Glo Luminescent Cell Viability Assay Kit (Promega). Cells were seeded at a concentration of 2,000 cells per well in a 96-well tissue culture plate. Luminescence was measured using a Victor 3 micro-plate reader. The luminescence signal measured from the cells 6 h after seeding was taken as the initial value, and measurements were performed every 24 h for 96 h.

**Xenograft studies.** Nude mice (*nu/nu*, male, 6-8 week old, Charles River Laboratories) were injected subcutaneously with  $5 \times 10^6$  cells (resuspended in 200  $\mu$ l of PBS) from each of the following H1299 rescue cell lines: Flag-tagged WT PFK1 rescue cells; Flag-tagged S529A PFK1 rescue cells; Flag-tagged WT PFK1 rescue cells with OGT overexpression; and Flag-tagged S529A PFK1 rescue cells with OGT overexpression. Tumor growth was monitored every 3 days over a 7-week period. At the end of the seventh week, the tumors were harvested and weighed. Experiments were performed in accordance with the Caltech Institutional Animal Care and Use Committee guidelines.

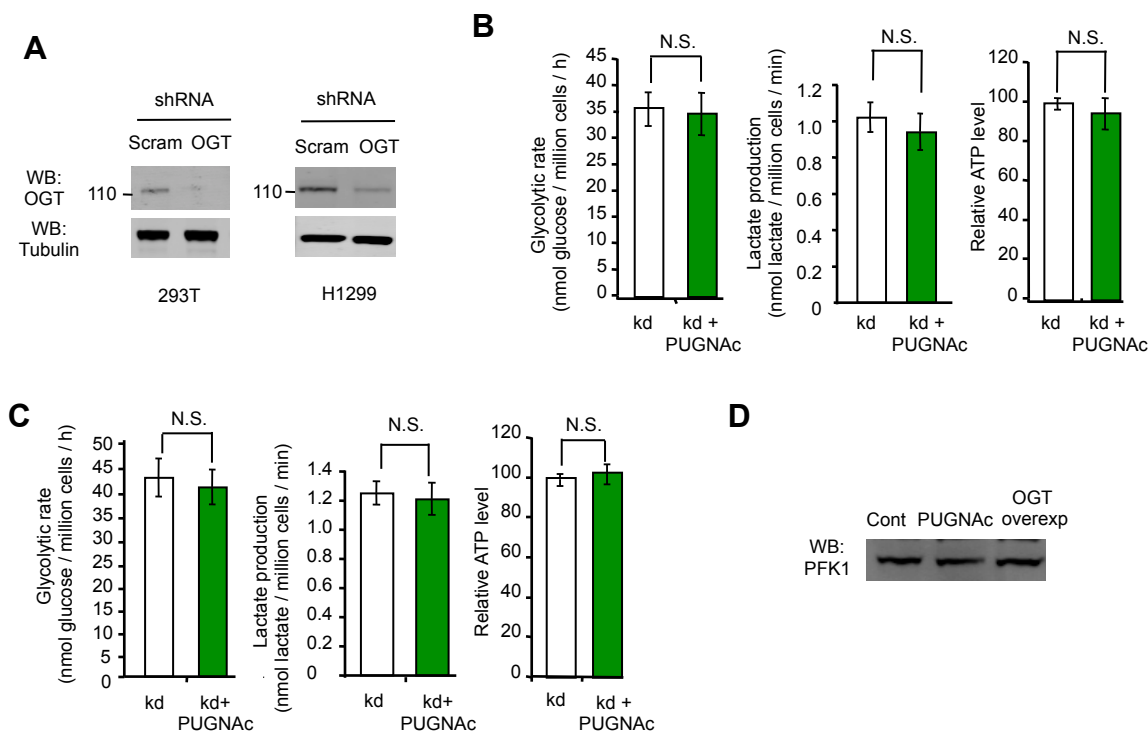
**Statistical analysis.** *P* values were calculated from Student's paired *t*-test when comparing within groups and from Student's unpaired *t*-test when comparing between groups. One-way ANOVA and Bonferroni comparison post-test were performed in the indicated figures when more than two groups were compared.



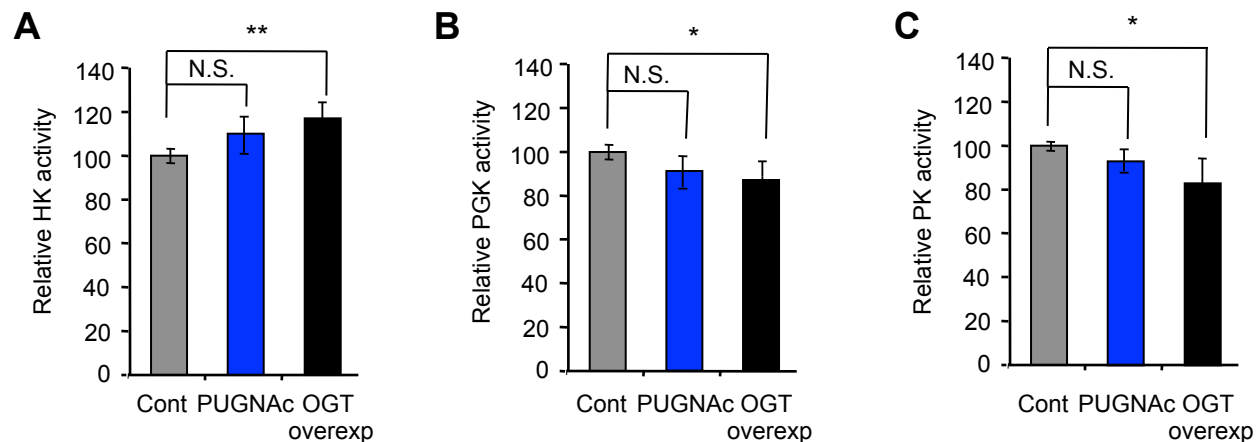
**Fig. S1. Effects of O-GlcNAcylation on cellular metabolism in H1299 cells under normoxic (Norm) and hypoxic (Hypo) conditions. (A) Glycolytic rate and (B) lactate production in untreated (Cont), PUGNAc-treated, and OGT-overexpressing cells. Error bars denote s.e.m. ( $n = 4$ ). Statistical analysis was performed by Student's  $t$ -test (\*  $P < 0.05$ ).**



**Fig. S2. Effects of O-GlcNAcylation on cellular metabolism in (A) A549 and (B) 293T cells.** Cells were untreated (Cont), PUGNAc-treated, or transfected to overexpress OGT. (Left) Lysates were immunoblotted with an O-GlcNAc antibody (RL-2) to monitor O-GlcNAc glycosylation levels or with a tubulin antibody to demonstrate equal protein loading. (Right) Glycolytic rate, lactate production, and relative ATP levels in untreated (Cont), PUGNAc-treated, and OGT-overexpressing cells. Error bars denote s.e.m. ( $n = 4$ ). Statistical analysis was performed by one-way ANOVA and Bonferroni comparison post-test (\*  $P < 0.05$ , \*\*  $P < 0.01$ , \*\*\*  $P < 0.001$ ).

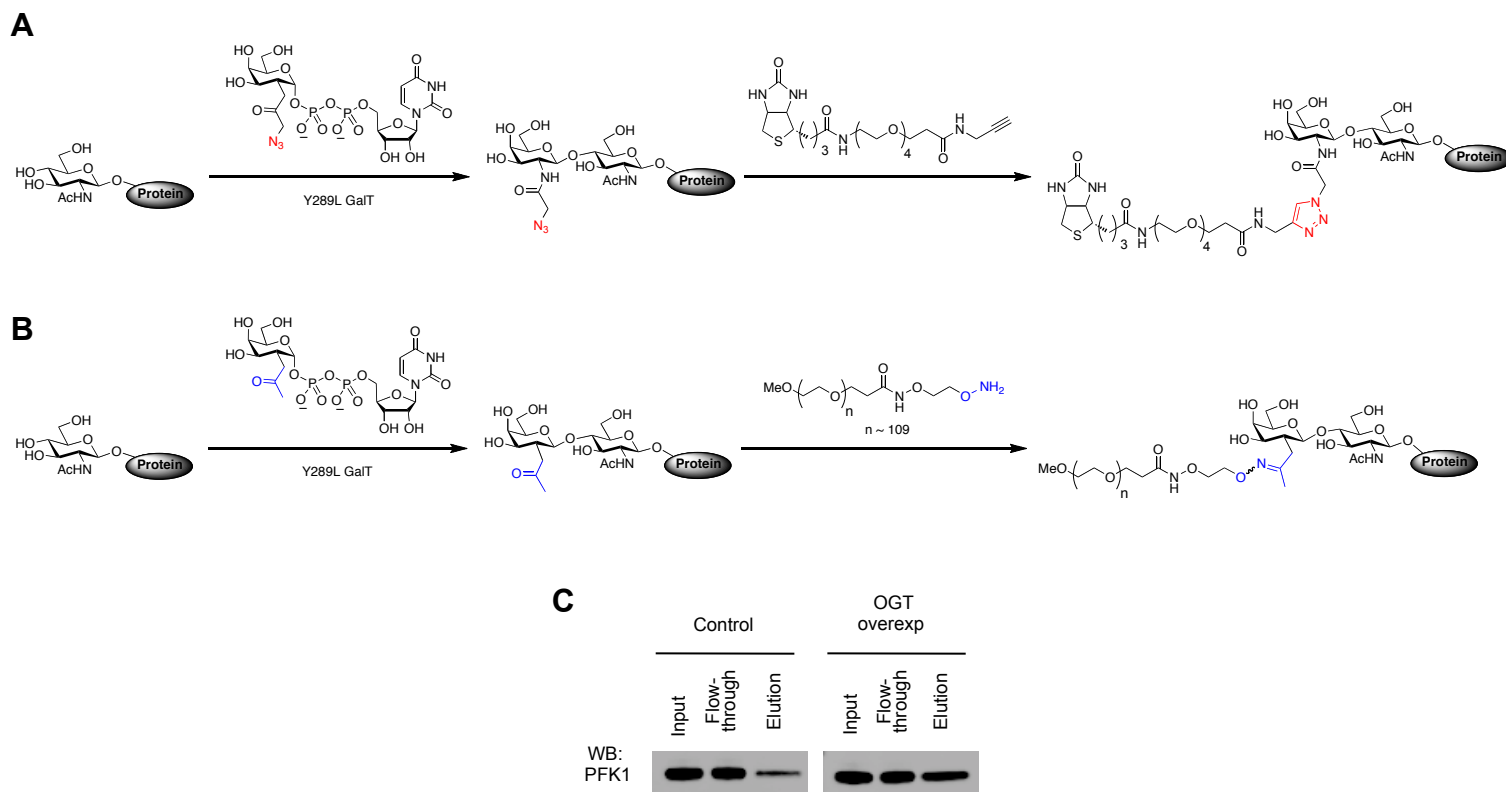


**Fig. S3. Modulation of O-GlcNAcylation in cells affects cellular metabolism through OGT, but has no effect on PFK1 protein expression.** (A) Immunoblotting of 293T and H1299 cells transfected with scramble or OGT shRNA. Lysates were immunoblotted with antibodies to OGT or tubulin. Approximately 75% knockdown of OGT was obtained. (B–C) Glycolytic rate, lactate production and relative ATP levels of 293T cells (B) and H1299 cells (C) transfected with OGT shRNA (kd) upon treatment with or without PUGNAc. Statistical analysis was performed by Student's *t*-test ( $n = 4$ ; N.S., Not Significant). (D) Immunoblotting for PFK1 protein expression levels in 293T cell lysates of untreated (Cont), PUGNAc-treated, and OGT-overexpressing cells.

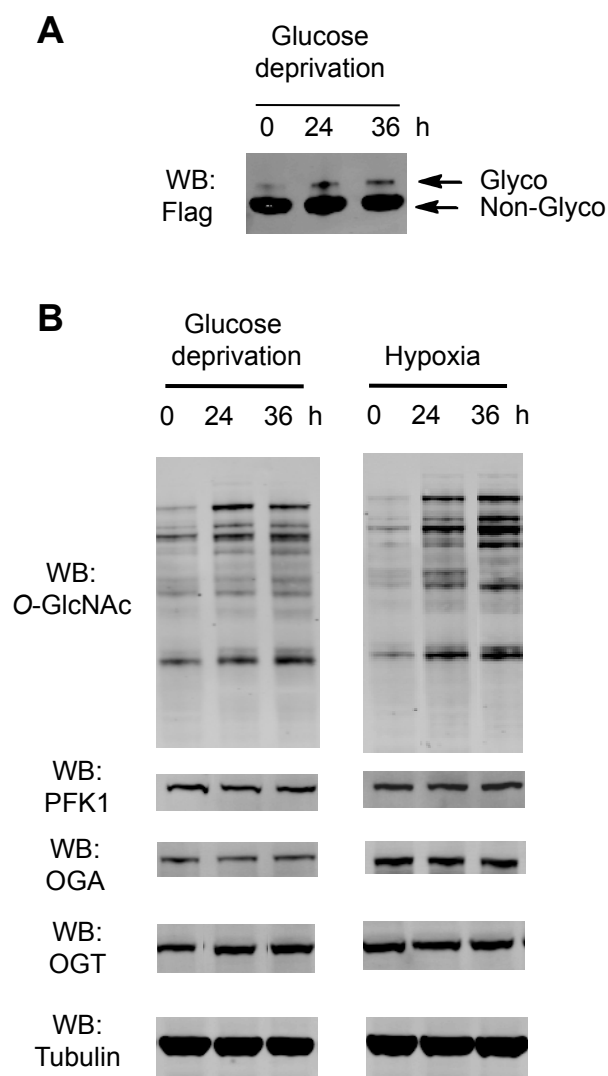


**Fig. S4. Enhancement of O-GlcNAcylation levels in cells has only modest effects on the activity of other glycolytic enzymes.** Enzyme activities of (A) hexokinase (HK), (B) phosphoglycerate kinase (PGK) and (C) pyruvate kinase (PK) from untreated (Cont), PUGNAc-treated, or OGT-overexpressing 293T cells. The activities of all enzymes were measured from crude cell lysates using coupled enzyme reactions that monitored NADH oxidation by spectroscopy at 340 nm. Error bars denote s.e.m. ( $n = 4$ ). Statistical analysis was performed by one-way ANOVA and Bonferroni comparison post-test (\*  $P < 0.05$ , \*\*  $P < 0.01$ ). N.S., Not Significant.

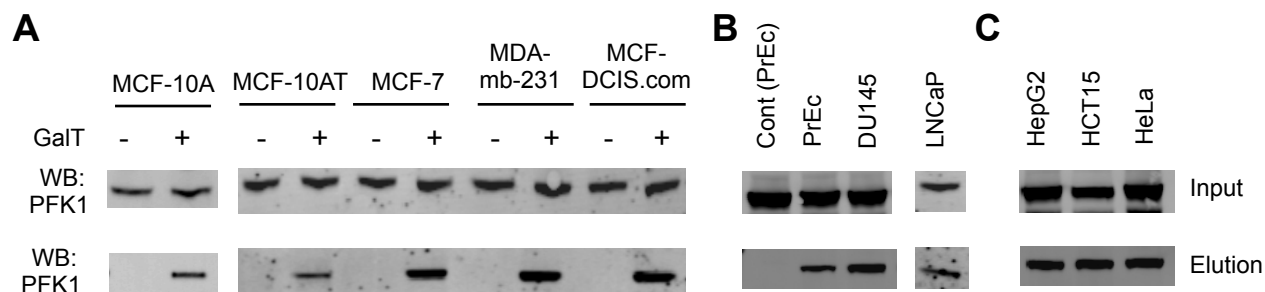




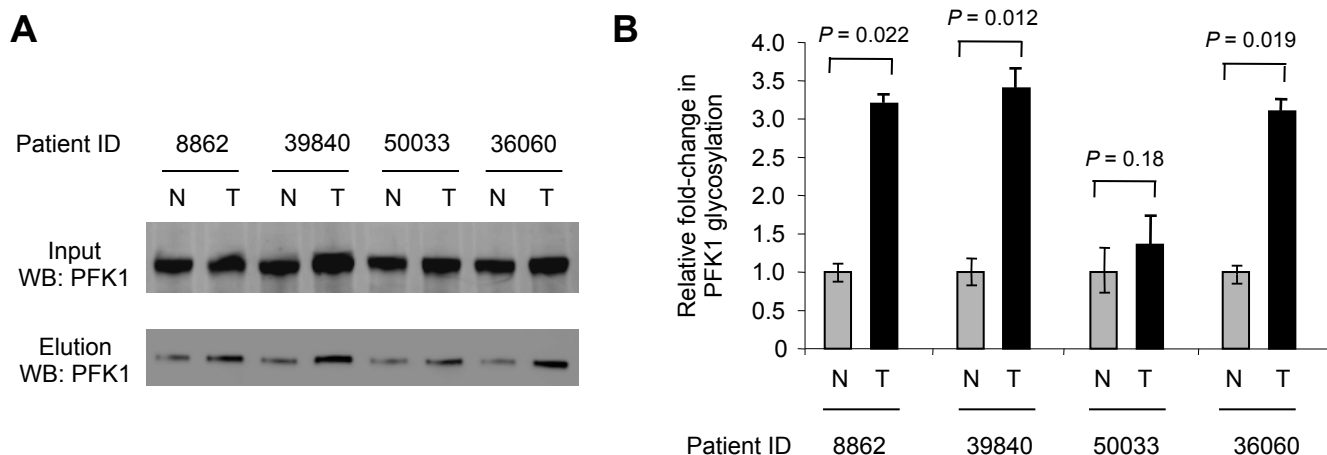
**Fig. S5. Chemoenzymatic strategy for the detection of O-GlcNAc-modified proteins.** (A) O-GlcNAcylated proteins in cell lysates were enzymatically labeled with an azido-containing nucleotide sugar analog (UDP-GalNAz) using an engineered  $\beta(1,4)$ -galactosyltransferase (Y289L GalT). Once transferred, the azido functionality was reacted with an alkyne-containing biotin tag. Biotinylation enabled the capture of O-GlcNAc-modified proteins from the lysate using streptavidin resin. Elution of the glycoproteins and subsequent immunoblotting with an antibody to PFK1 established that the protein was O-GlcNAc-modified. (B) O-GlcNAcylated proteins in cell lysates were enzymatically labeled with a ketone-containing nucleotide sugar analog (UDP-ketogalactose) using Y289L GalT. O-GlcNAc-modified proteins were labeled by reacting the ketogalactose sugar with an aminoxy-containing polyethylene glycol (PEG) tag of 5-kD molecular mass. The PEG polymer shifted the molecular weight of the O-GlcNAc proteins, and immunoblotting for PFK1 enabled visualization of the glycosylated and non-glycosylated subpopulations of PFK1. (C) Biotinylation, capture, and detection of glycosylated PFK1 from untreated or OGT-overexpressing 293T cells. Levels of glycosylated PFK1 increased upon overexpression of OGT.



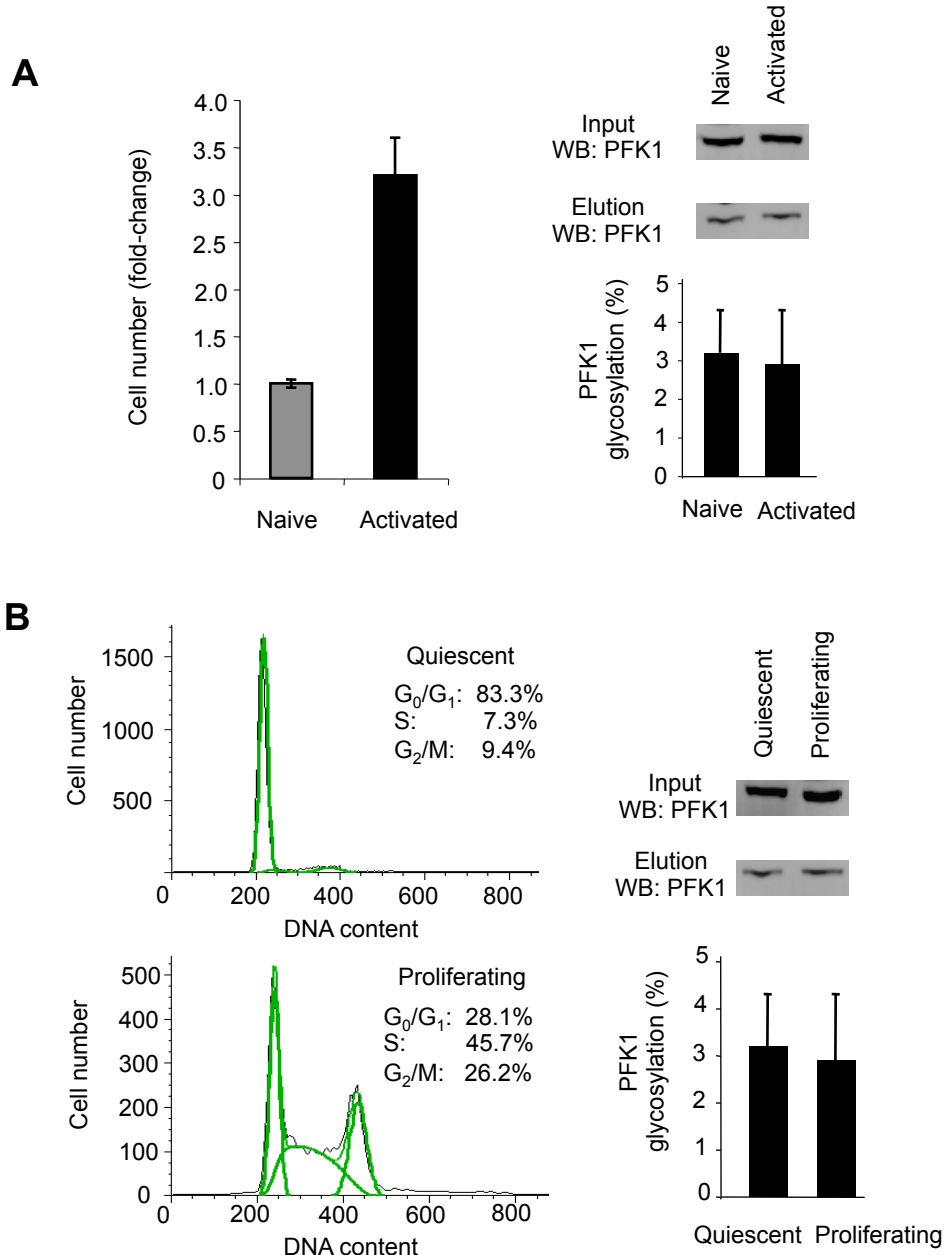
**Fig. S6. PFK1 glycosylation is induced in response to glucose deprivation and hypoxia.** (A) Glycosylation of PFK1 increases in a time-dependent manner upon glucose deprivation. (B) O-GlcNAc glycosylation and OGT expression increase, while PFK1 and OGA expression remain unchanged following glucose deprivation or hypoxic treatment. For glucose deprivation experiments, H1299 cells were cultured in high glucose (25 mM) media overnight and then switched to media lacking glucose. Hypoxia experiments were performed in a sealed chamber filled with 1% O<sub>2</sub>, 5% CO<sub>2</sub>, and 94% N<sub>2</sub> at 37 °C. Lysates were immunoblotted with antibodies to O-GlcNAc (RL-2), PFK1, OGA, OGT and tubulin. PFK1 glycosylation levels were analyzed by chemoenzymatic tagging of PFK1 with a 5-kD mass tag followed by immunoblotting with a Flag antibody as described in *Materials and Methods*.



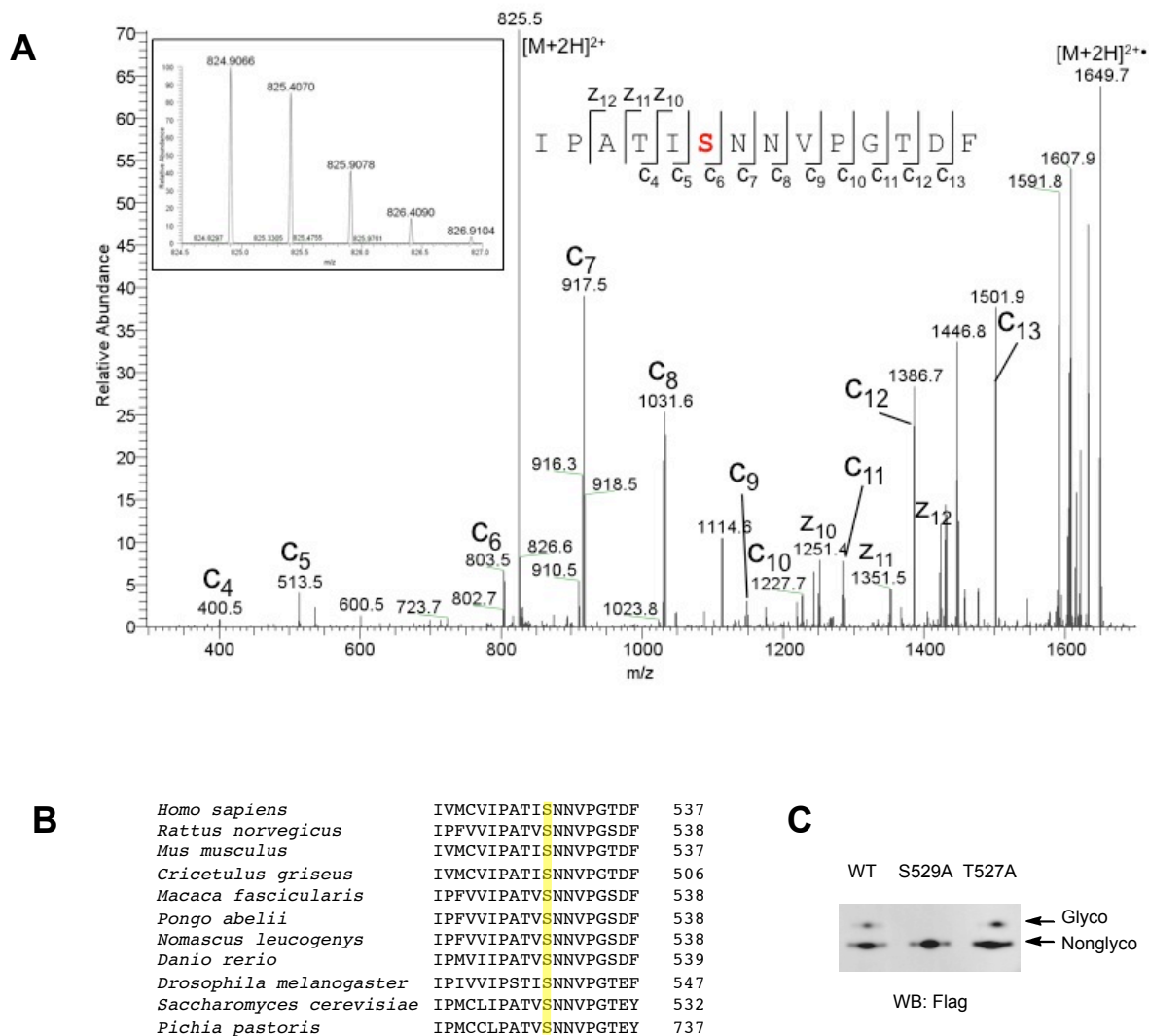
**Fig. S7. PFK1 glycosylation is observed in various human solid tumor cell lines and is enhanced in malignant (MCF-7, MDA-mb-231, MCF-DCIS.com, DU145, LNCaP) compared to non-tumorigenic lines (MCF-10A and PrEC) breast and prostate cell lines.** O-GlcNAcylated proteins from cell lysates were biotinylated and precipitated using streptavidin resin. Immunoblotting with an antibody to PFK1 allowed for the detection of glycosylated PFK1 in the eluent. GalT was removed as a control (Cont) to confirm specific labeling of O-GlcNAc. **(A)** Human breast cell lines; **(B)** human prostate cell lines; **(C)** other human cancer cell lines: HepG2 (liver cancer), HCT-15 (colon cancer), HeLa (cervical cancer).



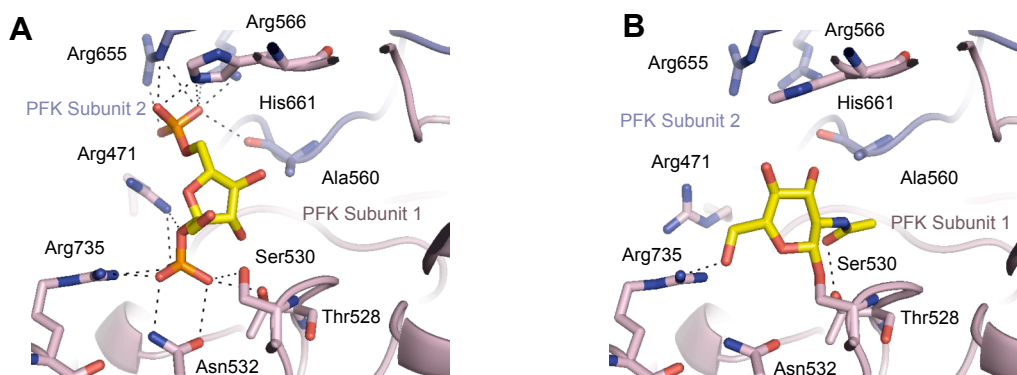
**Fig. S8. PFK1 glycosylation is observed in human breast tissues and is enhanced in tumor (T) tissues compared to matched normal (N) tissues in 3 out of 4 patients.** (A) O-GlcNAc-modified proteins from tissue lysates were labeled, biotinylated, and precipitated using streptavidin resin. Immunoblotting with an antibody to PFK1 allowed for the detection of glycosylated PFK1 in the eluent. (B) Quantification of the fold-change in PFK1 glycosylation for each patient sample. Data were normalized relative to the glycosylation level in normal tissue for each patient. Error bars denote s.e.m. Statistical analysis was performed by Student's *t*-test.



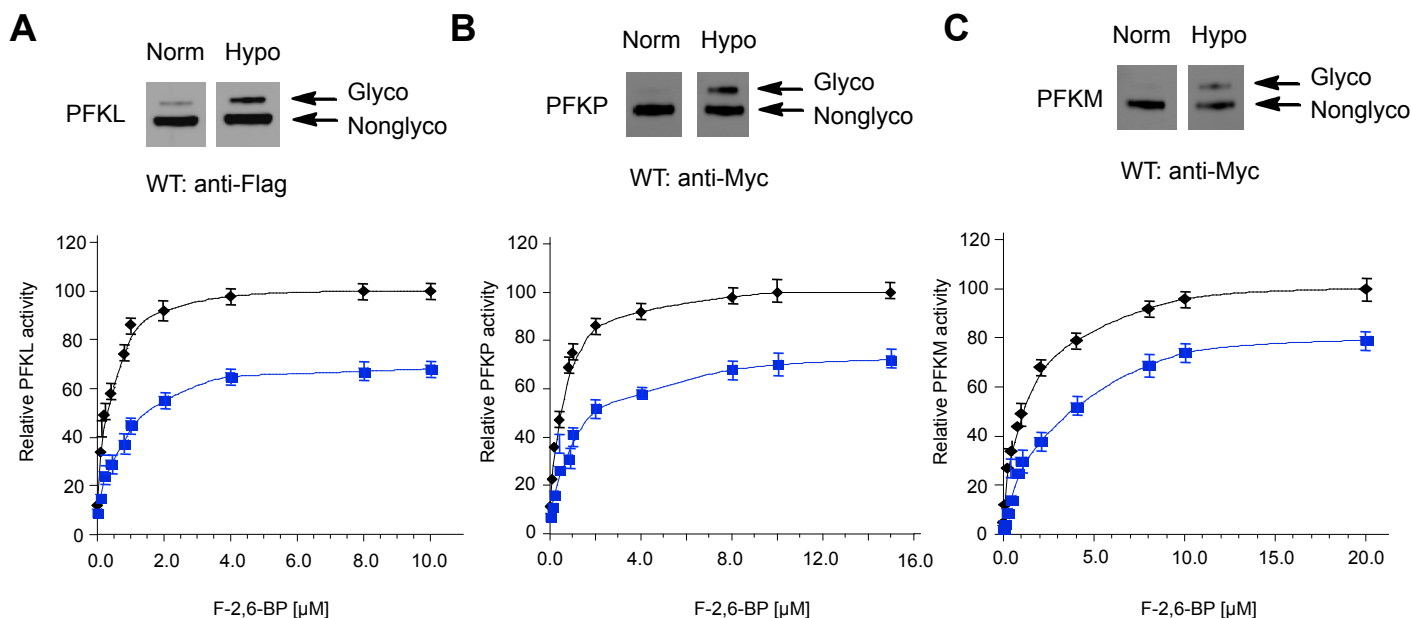
**Fig. S9. PFK1 glycosylation is not induced in rapidly proliferating normal cells compared to their quiescent counterparts.** (A). Isolated mouse T lymphocytes were activated and expanded by treatment with CD3/CD28 and recombinant IL-2 as described in *Materials and Methods*. Activated T lymphocytes showed increased cell number compared to naive T lymphocytes (left), but no change in PFK1 glycosylation level (right). The relative fold-change in the cell number of naive and activated mouse T lymphocytes was determined by measuring intracellular ATP levels. (B) Human dermal fibroblasts were induced into quiescence via contact inhibition as described in *Materials and Methods*. Cells were stained with propidium iodide and analyzed for cell cycle distribution by flow cytometry. The fraction of cells in  $G_0/G_1$  in the quiescent state is approximately 83.3%, compared to 28.1% in the proliferating state (left). No change in PFK1 glycosylation levels was observed between quiescent and proliferating fibroblasts (right). For (A) and (B), PFK1 glycosylation levels were determined by biotinylating O-GlcNAcylated proteins from cell lysates, isolating them using streptavidin resin, and immunoblotting with an antibody to PFK1. The percentage of glycosylation was quantified for  $n = 3$  experiments.



**Fig. S10. PFK1 is O-GlcNAc glycosylated at Ser<sup>529</sup>.** (A) Identification of the O-GlcNAc glycosylation site on PFK1 using mass spectrometry. Flag-tagged human PFK1 was expressed in 293T cells co-transfected with OGT, isolated using Flag M2 immunoaffinity resin, and digested with chymotrypsin. The O-GlcNAc-modified peptides were enriched by WGA lectin affinity chromatography, and subjected to electron transfer dissociation-mass spectrometry (ETD-MS) analysis. ETD-MS was performed on the  $m/z$  825.5 ion. The c and z fragment ions observed were used to map the glycosylation site to the serine residue indicated in red. (B) Sequence alignment of the residues surrounding Ser<sup>529</sup> across different species. (C) Glycosylation of Flag-tagged WT PFK1 and PFK1 mutants (L isoform), as determined by chemoenzymatic labeling with a 5-kD PEG mass tag followed by immunoblotting with a Flag antibody.

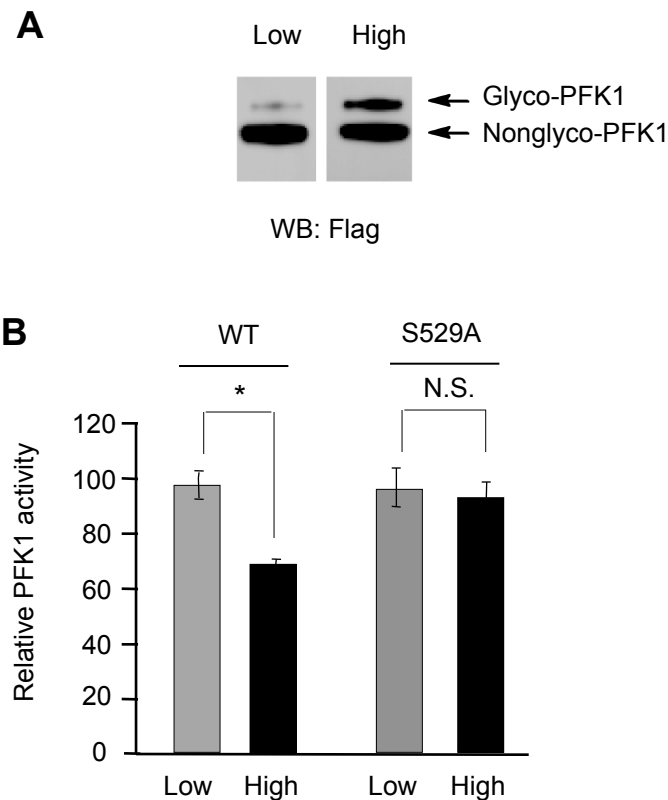


**Fig. S11. Computational models of rabbit PFK1 bound to F-2,6-BP and O-GlcNAc-modified PFK1.** (A) Homology model of F-2,6-BP (yellow) bound to rabbit PFK1. Ser<sup>529</sup> (Ser<sup>530</sup> in rabbit) forms a hydrogen bond with the 2-phosphate group of F-2,6-BP. To generate the homology model, the structure of *S. cerevisiae* PFK (which was co-crystallized with F-2,6-BP (35)) and rabbit PFK1 (whose apo-structure has been solved (35)) were used. The rmsd between the rabbit and yeast structures was only 1.70 Å, and the 2-phosphate phosphorus of F-2,6-BP in the yeast structure aligned closely with the phosphorus atom of a phosphate ion in the rabbit structure (rmsd 0.25 Å). Arg<sup>566</sup>, Arg<sup>655</sup> and His<sup>661</sup>, which have been shown by mutagenesis to be part of the F-2,6-BP binding site of human PFK1, are found in the predicted rabbit F-2,6-BP binding site. (B) Computational model of rabbit PFK1 O-GlcNAc glycosylated (yellow) at Ser<sup>530</sup>, the residue equivalent to Ser<sup>529</sup> in human PFK1. The five lowest energy structures showed similar O-GlcNAc conformations, with an average rmsd of  $0.59 \pm 0.42$  Å compared to the lowest energy structure. In all cases, the O-GlcNAc moiety occupied the F-2,6-BP-binding pocket and made multiple hydrogen-bonding contacts with the protein. In contrast to F-2,6-BP, the O-GlcNAc residue formed hydrogen bonds with only the subunit to which it was covalently bound and no hydrogen bonds with the second PFK subunit, suggesting that O-GlcNAc glycosylation blocks F-2,6-BP binding and perturbs the oligomerization of PFK1 subunits.

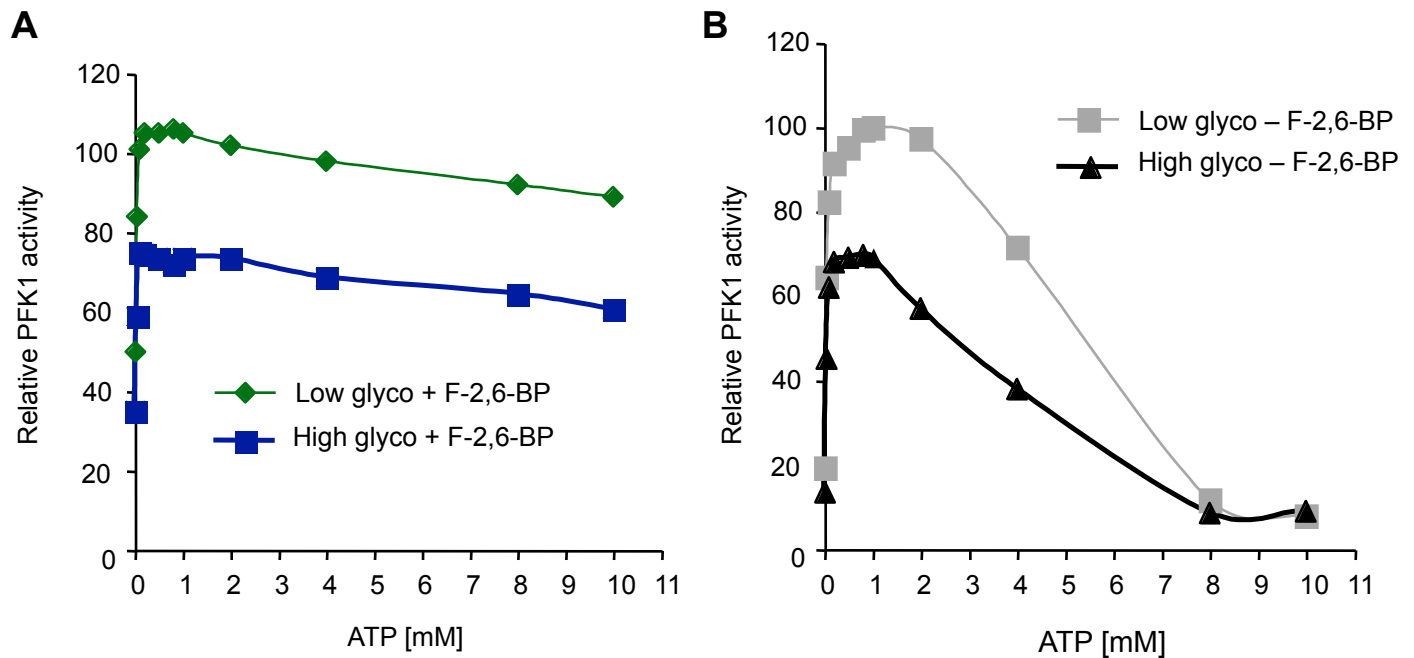


**Fig. S12. Effects of glycosylation on different PFK1 isoforms across a range of F-2,6-BP concentrations.** 293T cells expressing Flag-tagged PFKL (**A**), Myc-tagged PFKP (**B**), or Myc-tagged PFKM (**C**) were treated in the presence or absence of hypoxic conditions (0.5% O<sub>2</sub>, 37 °C, 24 h). Higher levels of hypoxia-induced glycosylation were observed on the PFKL and PFKP isoforms relative to PFKM (*top*; PFKL: 33.2  $\pm$  2.7%; PFKP: 32.5  $\pm$  3.1%; PFKM: 24.8  $\pm$  3.6%). Proteins were affinity purified and assayed for enzymatic activity (*bottom*). Black lines show the activities of proteins containing low glycosylation levels (normoxic conditions); blue lines show the activities of proteins containing high glycosylation levels (hypoxic conditions). Activities were normalized with respect to the corresponding PFK1 isoform containing low glycosylation levels in the presence of the highest F-2,6-BP concentration. Hypoxia-induced glycosylation inhibited all three isoforms, increasing the activation constant  $K_a$  (defined as the concentration of F-2,6-BP required to reach half-maximal activation) by 1.8-3.4 fold (PFKL: from 0.22 to 0.75  $\mu$ M; PFKP: from 0.5 to 0.9  $\mu$ M; PFKM: from 1.1 to 2.3  $\mu$ M). The PFKL and PFKP isoforms displayed a greater reduction in maximal activation by F-2,6-BP (33.5  $\pm$  1.5% and 27.5  $\pm$  0.5%, respectively) compared to PFKM (20.5  $\pm$  0.5%). Each activity measurement was performed in duplicate, and the data represent the average of two independent experiments.

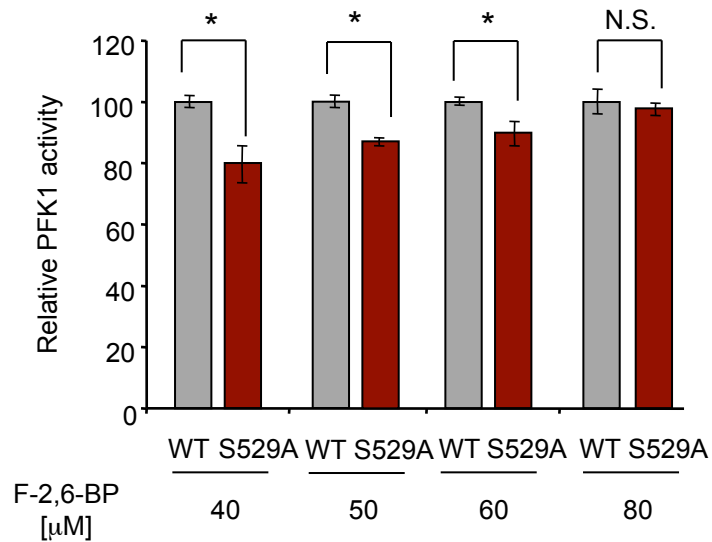




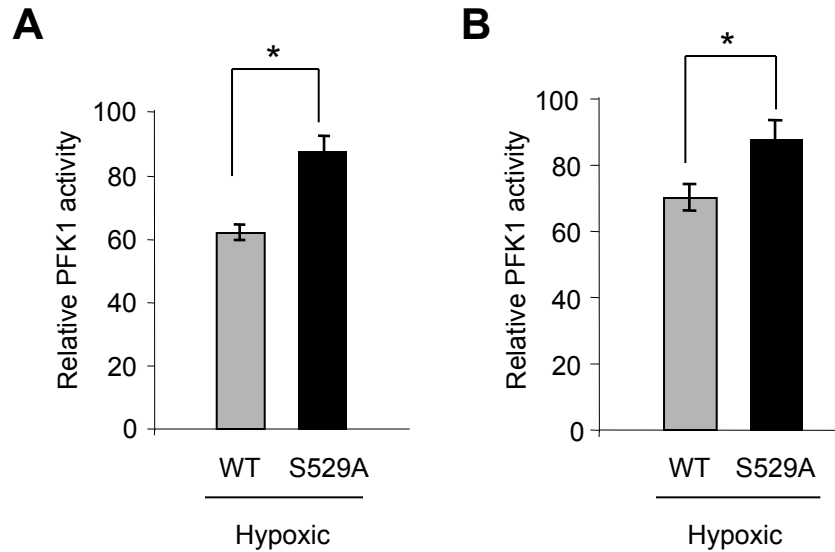
**Fig. S13. Enhancement of O-GlcNAc levels using various cellular treatments inhibits WT but not S529A PFK1 activity.** 293T cells expressing Flag-tagged WT or S529A PFK1 were untreated (Low) or subjected to a combination of high glucose media, hypoxia, and PUGNAc treatments (High) as described in *Materials and Methods*. **(A)** Glycosylation of the two forms of Flag-tagged PFK1. Glycosylation levels were analyzed by chemoenzymatic tagging of PFK1 with a 5-kD PEG mass tag, followed by immunoblotting with a Flag antibody. **(B)** Relative activities of affinity-purified WT or S529A PFK1 containing low or high levels of glycosylation. Activities were measured in the presence of 100  $\mu$ M F-2,6-BP and 3 mM ATP and were normalized with respect to the activity of untreated WT PFK1. Statistical analysis was performed by Student's *t*-test. \* $P < 0.05$ . N.S., Not Significant. Error bars denote s.e.m. ( $n = 3$ ).



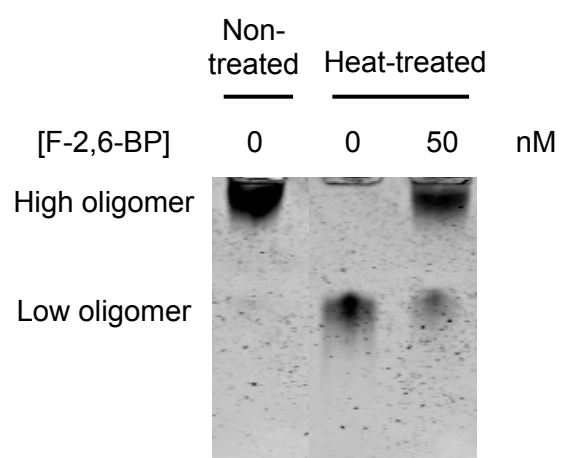
**Fig. S14. Glycosylation inhibited PFK1 activity across a wide ATP concentration range in the presence and absence of F-2,6-BP.** Flag-tagged PFK1 proteins containing low or high levels of glycosylation (see fig. S13A) were purified using Flag M2 immunoaffinity resin and assayed for activity over a range of ATP concentrations in the presence (**A**) or absence (**B**) of 100 nM F-2,6-BP. Activities were normalized with respect to PFK1 containing low glycosylation levels in the presence of 1.5 mM ATP but no F-2,6-BP.



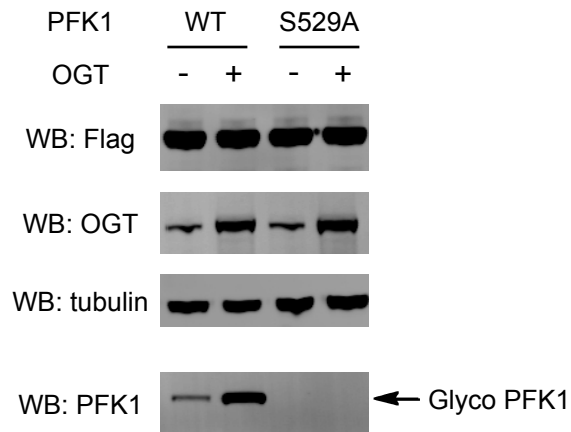
**Fig. S15. S529A PFK1 shows a modest reduction in activity, consistent with the importance of Ser<sup>529</sup> in F-2,6-BP recognition.** Relative activities of Flag-tagged WT and S529A PFK1 at the indicated concentrations of F-2,6-BP. Proteins were isolated from transfected 293T cells using Flag M2 immunoaffinity resin. Reactions were carried out as described in *Materials and Methods*. Statistical analysis was performed by Student's *t*-test. \**P* < 0.05. N.S., Not Significant. Error bars denote s.e.m. (*n* = 3).



**Fig. S16. S529A mutation rescues the inhibition of PFK1 activity by glycosylation.** 293T cells expressing Flag-tagged WT or S529A PFK1 were treated under hypoxic conditions (0.5% O<sub>2</sub> at 37 °C for 24 h) to induce glycosylation. Reactions were performed using (A) 293T cell lysates (20 µg) containing endogenous F-2,6-BP or (B) Flag affinity-purified PFK1 WT or S529A in the presence of 8.5 µM F-2,6-BP, as described in *Materials and Methods*. Activities were normalized against the activity of WT PFK1 under normoxic conditions. Statistical analysis was performed by Student's *t*-test. \**P* < 0.05. N.S., Not Significant. Error bars denote s.e.m. (*n* = 3).



**Fig. S17. Heat denaturation reduces the oligomerization state of PFK1 and F-2,6-BP partially rescues the effect.** Flag-tagged PFK1 was purified from 293T cells using Flag M2 immunoaffinity resin and heat-treated (50 °C, 30 min) where indicated. F-2,6-BP (50 nM) was added to PFK1 prior to heat treatment where indicated. Complexes were resolved by non-reducing SDS-PAGE and visualized by Coomassie Blue staining.



**Fig. S18. Characterization of H1299 cells used for xenograft studies.** Cells were infected with lentivirus containing shRNA-resistant Flag-WT or S529A PFK1 (L isoform) constructs, selected for 2 weeks, and then infected with lentivirus containing scramble or PFK1 shRNA constructs to knockdown endogenous PFK1 expression. OGT was subsequently overexpressed in the indicated cells. Lysates were immunoblotted with antibodies to Flag, OGT and tubulin. Glycosylation of PFK1 was detected by chemoenzymatic biotinylation of O-GlcNAc-modified PFK1, streptavidin precipitation, and visualization of the glycoprotein in the eluent by immunoblotting for PFK1 (*bottom panel*).

**Table S1. Metabolites identified from WT and S529A PFK1 knock-in cells in the presence or absence of OGT overexpression. All *P* values are multiple-hypothesis-corrected.**

Metabolite	WT PFK1 vs. S529A PFK1, OGT overexpression		WT PFK1 vs. S529A PFK1, no OGT overexpression		WT PFK1, OGT overexpression vs. no overexpression		S529A PFK1, OGT overexpression vs. no overexpression	
	Fold-Change	<i>P</i> value	Fold-Change	<i>P</i> value	Fold-Change	<i>P</i> value	Fold-Change	<i>P</i> value
<b>Pentose Phosphate Pathway</b>								
Deoxyribose*	2.46	1.6x10 <sup>-5</sup>	1.17	0.42	2.39	2.5x10 <sup>-5</sup>	1.13	0.63
D-Erythrose 4-phosphate	0.70	0.01	1.13	0.48	0.65	4.1x10 <sup>-3</sup>	1.05	0.87
Ribose 1,5-bisphosphate	1.95	1.8x10 <sup>-3</sup>	0.79	0.32	2.34	2.6x10 <sup>-4</sup>	0.94	0.87
<b>Amino Acid Metabolism</b>								
1-Pyrroline-2-carboxylic acid*	2.13	4.8x10 <sup>-5</sup>	1.03	0.89	2.23	2.9x10 <sup>-5</sup>	1.08	0.77
1-Pyrroline-4-hydroxy-2-carboxylate*	2.89	8.2x10 <sup>-7</sup>	1.30	0.12	2.59	3.1x10 <sup>-6</sup>	1.17	0.47
1-Pyrroline-4-hydroxy-2-carboxylate*	2.46	1.6x10 <sup>-5</sup>	1.17	0.42	2.39	2.5x10 <sup>-5</sup>	1.13	0.63
1-Pyrroline-5-carboxylic acid*	2.13	4.8x10 <sup>-5</sup>	1.03	0.89	2.23	2.9x10 <sup>-5</sup>	1.08	0.77
2-Amino-3-oxobutanoic acid*	3.15	4.8x10 <sup>-6</sup>	1.09	0.71	4.08	1.0x10 <sup>-6</sup>	1.41	0.37
5-Aminopentanoic acid*	1.23	0.02	1.07	0.56	1.20	0.04	1.04	0.79
Alanine	4.24	4.8x10 <sup>-8</sup>	1.35	0.07	3.53	2.3x10 <sup>-7</sup>	1.13	0.57
Allothreonine*	3.38	3.7x10 <sup>-8</sup>	1.58	4.5x10 <sup>-3</sup>	2.63	3.7x10 <sup>-7</sup>	1.22	0.38
Arginine	1.37	2.6x10 <sup>-3</sup>	1.23	0.09	1.16	0.11	1.04	0.81
Asparagine*	3.78	1.1x10 <sup>-7</sup>	1.84	3.4x10 <sup>-3</sup>	2.36	7.9x10 <sup>-6</sup>	1.15	0.51
Aspartic acid*	4.32	2.0x10 <sup>-8</sup>	2.58	8.0x10 <sup>-6</sup>	2.15	5.1x10 <sup>-6</sup>	1.29	0.35
Betaine	1.23	0.02	1.07	0.56	1.20	0.04	1.04	0.79
Cystathionine*	4.72	1.3x10 <sup>-9</sup>	1.35	0.01	3.93	2.7x10 <sup>-9</sup>	1.13	0.42
Dimethylglycine*	5.00	2.9x10 <sup>-8</sup>	1.30	0.12	4.78	4.7x10 <sup>-8</sup>	1.24	0.39
Formylanthranilic acid*	1.76	3.0x10 <sup>-4</sup>	1.15	0.39	1.45	0.01	0.95	0.83
Glutamic acid*	4.98	2.1x10 <sup>-8</sup>	1.38	0.05	4.75	3.3x10 <sup>-8</sup>	1.31	0.36
Glutamine*	4.25	1.4x10 <sup>-8</sup>	1.79	4.5x10 <sup>-4</sup>	3.04	8.8x10 <sup>-8</sup>	1.28	0.33
Glycine*	2.86	1.1x10 <sup>-4</sup>	1.41	0.20	3.41	2.7x10 <sup>-5</sup>	1.69	0.33
Histidine	2.86	2.3x10 <sup>-7</sup>	1.69	3.4x10 <sup>-3</sup>	2.14	6.3x10 <sup>-6</sup>	1.26	0.37
Homoserine*	3.38	3.7x10 <sup>-8</sup>	1.58	4.5x10 <sup>-3</sup>	2.63	3.7x10 <sup>-7</sup>	1.22	0.38
Hydroxyacetone*	0.97	0.84	0.99	0.96	1.09	0.57	1.12	0.70

Imidazole-4-acetaldehyde	3.25	5.6x10 <sup>-6</sup>	1.67	0.03	2.54	5.9x10 <sup>-5</sup>	1.31	0.41
Isoleucine	1.42	1.3x10 <sup>-3</sup>	1.12	0.36	1.34	5.4x10 <sup>-3</sup>	1.05	0.78
Leucine	1.42	1.3x10 <sup>-3</sup>	1.12	0.36	1.34	5.4x10 <sup>-3</sup>	1.05	0.78
N-Carbamoylsarcosine*	3.78	1.1x10 <sup>-7</sup>	1.84	3.4x10 <sup>-3</sup>	2.36	7.9x10 <sup>-6</sup>	1.15	0.51
Oxoadipic acid	0.85	0.15	2.04	3.2x10 <sup>-4</sup>	0.42	3.0x10 <sup>-6</sup>	1.02	0.93
Phenylalanine	2.21	5.2x10 <sup>-6</sup>	1.47	0.02	1.76	1.4x10 <sup>-4</sup>	1.17	0.43
Proline	2.35	1.6x10 <sup>-6</sup>	1.21	0.19	1.99	1.6x10 <sup>-5</sup>	1.02	0.92
Quinic acid	2.12	0.02	1.14	0.76	1.16	0.61	0.63	0.41
Quinolinic acid	1.03	0.86	0.98	0.94	1.19	0.26	1.14	0.64
S-Adenosylmethioninamine	1.43	0.11	0.87	0.65	1.32	0.21	0.80	0.56
Sarcosine	4.24	4.8x10 <sup>-8</sup>	1.35	0.07	3.53	2.3x10 <sup>-7</sup>	1.13	0.57
Serine	3.00	4.7x10 <sup>-8</sup>	1.76	4.4x10 <sup>-4</sup>	2.09	2.0x10 <sup>-6</sup>	1.23	0.37
Threonine	3.38	3.7x10 <sup>-8</sup>	1.58	4.5x10 <sup>-3</sup>	2.63	3.7x10 <sup>-7</sup>	1.22	0.38
Tyrosine	2.21	6.2x10 <sup>-6</sup>	1.42	0.03	1.85	7.7x10 <sup>-5</sup>	1.19	0.41
Valine	1.23	0.02	1.07	0.56	1.20	0.04	1.04	0.79
<b>Nucleotide Metabolism</b>								
β-aminoisobutyric acid*	5.00	2.9x10 <sup>-8</sup>	1.30	0.12	4.78	4.7x10 <sup>-8</sup>	1.24	0.39
2-(Formamido)-N <sup>1</sup> -(5-phospho-D-ribose)acetamidine	4.11	3.8x10 <sup>-7</sup>	1.22	0.33	3.10	4.1x10 <sup>-6</sup>	0.92	0.79
2-Deoxyguanosine 5-monophosphate*	5.01	3.6x10 <sup>-7</sup>	2.14	6.7x10 <sup>-3</sup>	2.73	4.1x10 <sup>-5</sup>	1.16	0.63
Adenine	5.48	1.4x10 <sup>-8</sup>	1.78	2.1x10 <sup>-3</sup>	3.56	1.0x10 <sup>-7</sup>	1.15	0.46
Adenosine monophosphate*	5.01	3.6x10 <sup>-7</sup>	2.14	6.7x10 <sup>-3</sup>	2.73	4.1x10 <sup>-5</sup>	1.16	0.63
Adenosine diphosphate*	4.36	1.9x10 <sup>-8</sup>	1.82	9.8x10 <sup>-4</sup>	3.22	1.4x10 <sup>-7</sup>	1.35	0.29
Beta-Alanine	4.24	4.8x10 <sup>-8</sup>	1.35	0.07	3.53	2.3x10 <sup>-7</sup>	1.13	0.57
Deoxyadenosine monophosphate	3.94	5.3x10 <sup>-6</sup>	1.04	0.88	3.92	6.7x10 <sup>-6</sup>	1.04	0.93
Deoxyguanosine diphosphate*	4.36	1.9x10 <sup>-8</sup>	1.82	9.8x10 <sup>-4</sup>	3.22	1.4x10 <sup>-7</sup>	1.35	0.29
Dihydrothymine	3.68	1.4x10 <sup>-8</sup>	1.51	4.8x10 <sup>-3</sup>	2.88	9.0x10 <sup>-8</sup>	1.18	0.39
Theobromine	3.27	3.2x10 <sup>-6</sup>	1.90	0.01	1.83	1.5x10 <sup>-3</sup>	1.06	0.84
Theophylline	3.27	3.2x10 <sup>-6</sup>	1.90	0.01	1.83	1.5x10 <sup>-3</sup>	1.06	0.84
Ureidopropionic acid*	3.78	1.1x10 <sup>-7</sup>	1.84	3.4x10 <sup>-3</sup>	2.36	7.9x10 <sup>-6</sup>	1.15	0.51
<b>Glutathione Metabolism</b>								
Glutathione (reduced)	7.74	1.3x10 <sup>-9</sup>	1.48	0.01	6.51	1.6x10 <sup>-9</sup>	1.24	0.37



<b>Glycolysis and TCA Cycle</b>								
Citric acid / Isocitric acid*	2.96	$1.5 \times 10^{-5}$	1.90	0.01	2.33	$1.7 \times 10^{-4}$	1.49	0.35
Fumaric acid*	4.26	$1.8 \times 10^{-7}$	1.52	0.04	3.15	$2.2 \times 10^{-6}$	1.12	0.66
Lactic acid*	0.78	0.10	1.37	0.11	0.61	$3.4 \times 10^{-3}$	1.08	0.79
Maleic acid*	4.26	$1.8 \times 10^{-7}$	1.52	0.04	3.15	$2.2 \times 10^{-6}$	1.12	0.66

\* represents one metabolite assignment among the multiple possible metabolite assignments found at a given  $m/z$  ( $\pm 5$  ppm), based on comparison with known metabolite masses in the Human Metabolome Database ([www.hmdb.ca](http://www.hmdb.ca)).

PDB coordinates of the lowest energy glycosylated PFK1 structure. GLC = O-GlcNAc residue

ATOM	1	N	ALA	A	9	50.108	79.859	122.308	0.00	0.00	N
ATOM	2	CA	ALA	A	9	50.171	78.734	121.436	0.00	0.00	C
ATOM	3	C	ALA	A	9	50.580	77.480	122.125	0.00	0.00	C
ATOM	4	O	ALA	A	9	51.083	77.518	123.273	0.00	0.00	O
ATOM	5	CB	ALA	A	9	51.124	79.078	120.264	0.00	0.00	C
ATOM	6	HN	ALA	A	9	50.989	80.044	122.669	0.00	0.00	H
ATOM	7	HN	ALA	A	9	49.794	80.636	121.818	0.00	0.00	H
ATOM	8	HN	ALA	A	9	49.496	79.673	123.039	0.00	0.00	H
ATOM	9	HCA	ALA	A	9	49.163	78.583	121.040	0.00	0.00	H
ATOM	10	HCB	ALA	A	9	52.139	79.248	120.632	0.00	0.00	H
ATOM	11	HCB	ALA	A	9	51.147	78.267	119.533	0.00	0.00	H
ATOM	12	HCB	ALA	A	9	50.785	79.983	119.755	0.00	0.00	H
ATOM	13	N	ARG	A	10	50.452	76.289	121.491	0.00	0.00	N
ATOM	14	CA	ARG	A	10	50.778	74.991	122.032	0.00	0.00	C
ATOM	15	C	ARG	A	10	52.181	74.833	122.515	0.00	0.00	C
ATOM	16	O	ARG	A	10	52.462	73.826	123.207	0.00	0.00	O
ATOM	17	CB	ARG	A	10	50.460	73.907	120.956	0.00	0.00	C
ATOM	18	CG	ARG	A	10	48.949	73.682	120.652	0.00	0.00	C
ATOM	19	CD	ARG	A	10	48.113	73.047	121.793	0.00	0.00	C
ATOM	20	NE	ARG	A	10	48.651	71.793	122.212	0.00	0.00	N
ATOM	21	CZ	ARG	A	10	48.087	70.953	123.084	0.00	0.00	C
ATOM	22	NH1	ARG	A	10	46.903	71.148	123.643	0.00	0.00	N
ATOM	23	NH2	ARG	A	10	48.742	69.853	123.411	0.00	0.00	N
ATOM	24	HN	ARG	A	10	50.085	76.315	120.594	0.00	0.00	H
ATOM	25	HNE	ARG	A	10	49.510	71.527	121.860	0.00	0.00	H
ATOM	26	HNH1	ARG	A	10	46.397	71.937	123.422	0.00	0.00	H
ATOM	27	HNH1	ARG	A	10	46.551	70.500	124.265	0.00	0.00	H
ATOM	28	HNH2	ARG	A	10	49.608	69.675	123.027	0.00	0.00	H
ATOM	29	HNH2	ARG	A	10	48.353	69.232	124.039	0.00	0.00	H
ATOM	30	HCA	ARG	A	10	50.138	74.829	122.903	0.00	0.00	H
ATOM	31	HCB	ARG	A	10	50.958	74.190	120.023	0.00	0.00	H
ATOM	32	HCB	ARG	A	10	50.891	72.947	121.252	0.00	0.00	H
ATOM	33	HCD	ARG	A	10	48.060	73.732	122.644	0.00	0.00	H
ATOM	34	HCD	ARG	A	10	47.099	72.896	121.419	0.00	0.00	H
ATOM	35	HCG	ARG	A	10	48.490	74.635	120.374	0.00	0.00	H
ATOM	36	HCG	ARG	A	10	48.874	73.026	119.779	0.00	0.00	H
ATOM	37	N	THR	A	11	53.132	75.753	122.231	0.00	0.00	N
ATOM	38	CA	THR	A	11	54.493	75.746	122.692	0.00	0.00	C
ATOM	39	C	THR	A	11	54.750	76.774	123.744	0.00	0.00	C
ATOM	40	O	THR	A	11	55.817	76.699	124.406	0.00	0.00	O
ATOM	41	CB	THR	A	11	55.470	75.887	121.479	0.00	0.00	C
ATOM	42	CG2	THR	A	11	55.391	77.244	120.739	0.00	0.00	C
ATOM	43	OG1	THR	A	11	56.816	75.715	121.921	0.00	0.00	O
ATOM	44	HN	THR	A	11	52.855	76.499	121.679	0.00	0.00	H
ATOM	45	HCA	THR	A	11	54.719	74.779	123.142	0.00	0.00	H
ATOM	46	HCB	THR	A	11	55.258	75.091	120.757	0.00	0.00	H
ATOM	47	HCG2	THR	A	11	54.387	77.409	120.346	0.00	0.00	H
ATOM	48	HCG2	THR	A	11	55.652	78.067	121.405	0.00	0.00	H
ATOM	49	HCG2	THR	A	11	56.091	77.246	119.900	0.00	0.00	H
ATOM	50	HOG1	THR	A	11	56.743	76.090	122.810	0.00	0.00	H
ATOM	51	N	LEU	A	12	53.899	77.800	123.998	0.00	0.00	N
ATOM	52	CA	LEU	A	12	54.253	78.977	124.753	0.00	0.00	C
ATOM	53	C	LEU	A	12	54.573	78.621	126.161	0.00	0.00	C
ATOM	54	O	LEU	A	12	55.698	78.915	126.631	0.00	0.00	O
ATOM	55	CB	LEU	A	12	53.144	80.061	124.598	0.00	0.00	C
ATOM	56	CG	LEU	A	12	53.343	81.378	125.415	0.00	0.00	C
ATOM	57	CD1	LEU	A	12	54.613	82.168	124.999	0.00	0.00	C
ATOM	58	CD2	LEU	A	12	52.088	82.286	125.304	0.00	0.00	C
ATOM	59	HN	LEU	A	12	52.998	77.729	123.676	0.00	0.00	H
ATOM	60	HCA	LEU	A	12	55.157	79.389	124.292	0.00	0.00	H
ATOM	61	HCB	LEU	A	12	53.061	80.318	123.538	0.00	0.00	H
ATOM	62	HCB	LEU	A	12	52.191	79.621	124.891	0.00	0.00	H
ATOM	63	HCD1	LEU	A	12	55.513	81.586	125.201	0.00	0.00	H
ATOM	64	HCD1	LEU	A	12	54.583	82.412	123.935	0.00	0.00	H
ATOM	65	HCD1	LEU	A	12	54.688	83.097	125.568	0.00	0.00	H
ATOM	66	HCD2	LEU	A	12	51.919	82.587	124.268	0.00	0.00	H
ATOM	67	HCD2	LEU	A	12	51.201	81.758	125.662	0.00	0.00	H
ATOM	68	HCD2	LEU	A	12	52.209	83.185	125.913	0.00	0.00	H
ATOM	69	HCG	LEU	A	12	53.449	81.110	126.469	0.00	0.00	H
ATOM	70	N	GLY	A	13	53.688	77.927	126.907	0.00	0.00	N
ATOM	71	CA	GLY	A	13	53.973	77.365	128.189	0.00	0.00	C
ATOM	72	C	GLY	A	13	54.934	76.241	128.267	0.00	0.00	C
ATOM	73	O	GLY	A	13	55.176	75.823	129.428	0.00	0.00	O
ATOM	74	HN	GLY	A	13	52.794	77.818	126.571	0.00	0.00	H
ATOM	75	HCA	GLY	A	13	54.310	78.159	128.856	0.00	0.00	H
ATOM	76	HCA	GLY	A	13	53.028	76.988	128.571	0.00	0.00	H
ATOM	77	N	VAL	A	14	55.556	75.655	127.205	0.00	0.00	N
ATOM	78	CA	VAL	A	14	56.370	74.465	127.335	0.00	0.00	C

ATOM	79	C	VAL	A	14	57.611	74.797	128.086	0.00	0.00	C
ATOM	80	O	VAL	A	14	58.483	75.535	127.568	0.00	0.00	O
ATOM	81	CB	VAL	A	14	56.619	73.757	125.958	0.00	0.00	C
ATOM	82	CG1	VAL	A	14	57.688	72.626	126.021	0.00	0.00	C
ATOM	83	CG2	VAL	A	14	55.296	73.156	125.403	0.00	0.00	C
ATOM	84	HN	VAL	A	14	55.497	76.051	126.329	0.00	0.00	H
ATOM	85	HCA	VAL	A	14	55.803	73.744	127.933	0.00	0.00	H
ATOM	86	HCB	VAL	A	14	56.983	74.505	125.248	0.00	0.00	H
ATOM	87	HCG1	VAL	A	14	57.416	71.878	126.768	0.00	0.00	H
ATOM	88	HCG1	VAL	A	14	57.784	72.132	125.052	0.00	0.00	H
ATOM	89	HCG1	VAL	A	14	58.669	73.033	126.277	0.00	0.00	H
ATOM	90	HCG2	VAL	A	14	54.950	72.334	126.033	0.00	0.00	H
ATOM	91	HCG2	VAL	A	14	54.509	73.911	125.373	0.00	0.00	H
ATOM	92	HCG2	VAL	A	14	55.444	72.772	124.392	0.00	0.00	H
ATOM	93	N	GLY	A	15	57.740	74.327	129.348	0.00	0.00	N
ATOM	94	CA	GLY	A	15	58.813	74.590	130.256	0.00	0.00	C
ATOM	95	C	GLY	A	15	58.415	75.405	131.423	0.00	0.00	C
ATOM	96	O	GLY	A	15	59.284	75.565	132.313	0.00	0.00	O
ATOM	97	HN	GLY	A	15	57.009	73.779	129.676	0.00	0.00	H
ATOM	98	HCA	GLY	A	15	59.176	73.626	130.617	0.00	0.00	H
ATOM	99	HCA	GLY	A	15	59.649	75.094	129.764	0.00	0.00	H
ATOM	100	N	LYS	A	16	57.190	75.979	131.545	0.00	0.00	N
ATOM	101	CA	LYS	A	16	56.778	76.837	132.627	0.00	0.00	C
ATOM	102	C	LYS	A	16	55.897	76.171	133.630	0.00	0.00	C
ATOM	103	O	LYS	A	16	55.275	75.105	133.389	0.00	0.00	O
ATOM	104	CB	LYS	A	16	56.114	78.115	132.029	0.00	0.00	C
ATOM	105	CG	LYS	A	16	57.093	79.067	131.278	0.00	0.00	C
ATOM	106	CD	LYS	A	16	58.012	79.891	132.223	0.00	0.00	C
ATOM	107	CE	LYS	A	16	58.882	80.927	131.476	0.00	0.00	C
ATOM	108	NZ	LYS	A	16	59.696	81.690	132.430	0.00	0.00	N
ATOM	109	HN	LYS	A	16	56.550	75.847	130.840	0.00	0.00	H
ATOM	110	HNZ	LYS	A	16	59.089	82.177	133.093	0.00	0.00	H
ATOM	111	HNZ	LYS	A	16	60.311	81.057	132.940	0.00	0.00	H
ATOM	112	HNZ	LYS	A	16	60.261	82.375	131.927	0.00	0.00	H
ATOM	113	HCA	LYS	A	16	57.658	77.158	133.190	0.00	0.00	H
ATOM	114	HCB	LYS	A	16	55.329	77.802	131.334	0.00	0.00	H
ATOM	115	HCB	LYS	A	16	55.617	78.686	132.818	0.00	0.00	H
ATOM	116	HCD	LYS	A	16	57.390	80.424	132.945	0.00	0.00	H
ATOM	117	HCD	LYS	A	16	58.673	79.217	132.772	0.00	0.00	H
ATOM	118	HCE	LYS	A	16	59.545	80.420	130.771	0.00	0.00	H
ATOM	119	HCE	LYS	A	16	58.247	81.623	130.922	0.00	0.00	H
ATOM	120	HCG	LYS	A	16	57.705	78.490	130.579	0.00	0.00	H
ATOM	121	HCG	LYS	A	16	56.498	79.765	130.684	0.00	0.00	H
ATOM	122	N	ALA	A	17	55.820	76.756	134.849	0.00	0.00	N
ATOM	123	CA	ALA	A	17	55.082	76.300	135.985	0.00	0.00	C
ATOM	124	C	ALA	A	17	54.312	77.426	136.586	0.00	0.00	C
ATOM	125	O	ALA	A	17	54.889	78.531	136.805	0.00	0.00	O
ATOM	126	CB	ALA	A	17	56.075	75.660	136.982	0.00	0.00	C
ATOM	127	HN	ALA	A	17	56.338	77.564	134.971	0.00	0.00	H
ATOM	128	HCA	ALA	A	17	54.388	75.514	135.685	0.00	0.00	H
ATOM	129	HCB	ALA	A	17	56.823	76.384	137.307	0.00	0.00	H
ATOM	130	HCB	ALA	A	17	55.536	75.282	137.852	0.00	0.00	H
ATOM	131	HCB	ALA	A	17	56.589	74.819	136.511	0.00	0.00	H
ATOM	132	N	ILE	A	18	52.991	77.238	136.848	0.00	0.00	N
ATOM	133	CA	ILE	A	18	52.071	78.228	137.354	0.00	0.00	C
ATOM	134	C	ILE	A	18	51.376	77.771	138.598	0.00	0.00	C
ATOM	135	O	ILE	A	18	50.958	76.594	138.708	0.00	0.00	O
ATOM	136	CB	ILE	A	18	51.095	78.815	136.253	0.00	0.00	C
ATOM	137	CG1	ILE	A	18	49.709	78.104	136.171	0.00	0.00	C
ATOM	138	CG2	ILE	A	18	51.753	78.883	134.840	0.00	0.00	C
ATOM	139	CD1	ILE	A	18	48.707	78.666	135.133	0.00	0.00	C
ATOM	140	HN	ILE	A	18	52.652	76.359	136.661	0.00	0.00	H
ATOM	141	HCA	ILE	A	18	52.679	79.069	137.674	0.00	0.00	H
ATOM	142	HCB	ILE	A	18	50.873	79.847	136.549	0.00	0.00	H
ATOM	143	HCD1	ILE	A	18	48.568	79.738	135.284	0.00	0.00	H
ATOM	144	HCD1	ILE	A	18	49.054	78.488	134.115	0.00	0.00	H
ATOM	145	HCD1	ILE	A	18	47.741	78.170	135.247	0.00	0.00	H
ATOM	146	HCG1	ILE	A	18	49.886	77.052	135.961	0.00	0.00	H
ATOM	147	HCG1	ILE	A	18	49.214	78.177	137.143	0.00	0.00	H
ATOM	148	HCG2	ILE	A	18	52.787	79.216	134.890	0.00	0.00	H
ATOM	149	HCG2	ILE	A	18	51.741	77.897	134.378	0.00	0.00	H
ATOM	150	HCG2	ILE	A	18	51.217	79.580	134.193	0.00	0.00	H
ATOM	151	N	ALA	A	19	51.132	78.665	139.582	0.00	0.00	N
ATOM	152	CA	ALA	A	19	50.340	78.453	140.764	0.00	0.00	C
ATOM	153	C	ALA	A	19	49.056	79.206	140.697	0.00	0.00	C
ATOM	154	O	ALA	A	19	49.087	80.439	140.463	0.00	0.00	O
ATOM	155	CB	ALA	A	19	51.183	78.858	141.997	0.00	0.00	C
ATOM	156	HN	ALA	A	19	51.539	79.522	139.455	0.00	0.00	H
ATOM	157	HCA	ALA	A	19	50.107	77.393	140.886	0.00	0.00	H
ATOM	158	HCB	ALA	A	19	51.626	79.846	141.857	0.00	0.00	H

ATOM	159	HC	B	ALA	A	19	50.566	78.880	142.895	0.00	0.00		H
ATOM	160	HC	B	ALA	A	19	51.980	78.130	142.155	0.00	0.00		H
ATOM	161	N		VAL	A	20	47.874	78.576	140.924	0.00	0.00		N
ATOM	162	CA		VAL	A	20	46.575	79.206	140.997	0.00	0.00		C
ATOM	163	C		VAL	A	20	46.125	79.276	142.418	0.00	0.00		C
ATOM	164	O		VAL	A	20	45.956	78.225	143.090	0.00	0.00		O
ATOM	165	CB		VAL	A	20	45.545	78.581	139.994	0.00	0.00		C
ATOM	166	CG1		VAL	A	20	45.182	77.094	140.242	0.00	0.00		C
ATOM	167	CG2		VAL	A	20	44.240	79.421	139.912	0.00	0.00		C
ATOM	168	HN		VAL	A	20	47.929	77.631	141.080	0.00	0.00		H
ATOM	169	HCA		VAL	A	20	46.684	80.239	140.660	0.00	0.00		H
ATOM	170	HC	B	VAL	A	20	46.014	78.621	139.005	0.00	0.00		H
ATOM	171	HCG1		VAL	A	20	44.662	76.974	141.192	0.00	0.00		H
ATOM	172	HCG1		VAL	A	20	44.530	76.725	139.448	0.00	0.00		H
ATOM	173	HCG1		VAL	A	20	46.077	76.478	140.241	0.00	0.00		H
ATOM	174	HCG2		VAL	A	20	44.465	80.461	139.673	0.00	0.00		H
ATOM	175	HCG2		VAL	A	20	43.586	79.032	139.130	0.00	0.00		H
ATOM	176	HCG2		VAL	A	20	43.700	79.392	140.861	0.00	0.00		H
ATOM	177	N		LEU	A	21	45.958	80.499	142.984	0.00	0.00		N
ATOM	178	CA		LEU	A	21	45.665	80.791	144.356	0.00	0.00		C
ATOM	179	C		LEU	A	21	44.367	81.509	144.468	0.00	0.00		C
ATOM	180	O		LEU	A	21	44.180	82.586	143.850	0.00	0.00		O
ATOM	181	CB		LEU	A	21	46.884	81.606	144.883	0.00	0.00		C
ATOM	182	CG		LEU	A	21	46.958	81.832	146.425	0.00	0.00		C
ATOM	183	CD1		LEU	A	21	48.390	82.260	146.822	0.00	0.00		C
ATOM	184	CD2		LEU	A	21	45.969	82.903	146.947	0.00	0.00		C
ATOM	185	HN		LEU	A	21	46.116	81.272	142.437	0.00	0.00		H
ATOM	186	HCA		LEU	A	21	45.600	79.868	144.937	0.00	0.00		H
ATOM	187	HC	B	LEU	A	21	47.780	81.049	144.588	0.00	0.00		H
ATOM	188	HC	B	LEU	A	21	46.935	82.571	144.371	0.00	0.00		H
ATOM	189	HCD1		LEU	A	21	49.106	81.502	146.512	0.00	0.00		H
ATOM	190	HCD1		LEU	A	21	48.657	83.210	146.354	0.00	0.00		H
ATOM	191	HCD1		LEU	A	21	48.461	82.368	147.903	0.00	0.00		H
ATOM	192	HCD2		LEU	A	21	46.065	83.830	146.379	0.00	0.00		H
ATOM	193	HCD2		LEU	A	21	44.947	82.548	146.871	0.00	0.00		H
ATOM	194	HCD2		LEU	A	21	46.162	83.121	147.999	0.00	0.00		H
ATOM	195	HCG		LEU	A	21	46.747	80.886	146.933	0.00	0.00		H
ATOM	196	N		THR	A	22	43.405	81.004	145.275	0.00	0.00		N
ATOM	197	CA		THR	A	22	42.085	81.537	145.488	0.00	0.00		C
ATOM	198	C		THR	A	22	42.045	82.205	146.824	0.00	0.00		C
ATOM	199	O		THR	A	22	42.268	81.526	147.852	0.00	0.00		O
ATOM	200	CB		THR	A	22	41.060	80.376	145.241	0.00	0.00		C
ATOM	201	CG2		THR	A	22	40.847	79.405	146.418	0.00	0.00		C
ATOM	202	OG1		THR	A	22	39.773	80.857	144.883	0.00	0.00		O
ATOM	203	HN		THR	A	22	43.631	80.195	145.762	0.00	0.00		H
ATOM	204	HCA		THR	A	22	41.870	82.299	144.739	0.00	0.00		H
ATOM	205	HC	B	THR	A	22	41.399	79.788	144.380	0.00	0.00		H
ATOM	206	HCG2		THR	A	22	41.801	78.981	146.736	0.00	0.00		H
ATOM	207	HCG2		THR	A	22	40.377	79.919	147.256	0.00	0.00		H
ATOM	208	HCG2		THR	A	22	40.188	78.593	146.128	0.00	0.00		H
ATOM	209	HOG1		THR	A	22	39.533	81.465	145.617	0.00	0.00		H
ATOM	210	N		SER	A	23	41.874	83.545	146.957	0.00	0.00		N
ATOM	211	CA		SER	A	23	41.903	84.305	148.188	0.00	0.00		C
ATOM	212	C		SER	A	23	40.790	85.286	148.283	0.00	0.00		C
ATOM	213	O		SER	A	23	40.038	85.515	147.308	0.00	0.00		O
ATOM	214	CB		SER	A	23	43.284	85.001	148.313	0.00	0.00		C
ATOM	215	OG		SER	A	23	43.395	85.839	149.466	0.00	0.00		O
ATOM	216	HN		SER	A	23	41.741	84.061	146.162	0.00	0.00		H
ATOM	217	HCA		SER	A	23	41.795	83.636	149.046	0.00	0.00		H
ATOM	218	HC	B	SER	A	23	44.046	84.230	148.406	0.00	0.00		H
ATOM	219	HC	B	SER	A	23	43.493	85.589	147.416	0.00	0.00		H
ATOM	220	HOG		SER	A	23	44.351	86.053	149.540	0.00	0.00		H
ATOM	221	N		GLY	A	24	40.580	85.924	149.456	0.00	0.00		N
ATOM	222	CA		GLY	A	24	39.483	86.791	149.763	0.00	0.00		C
ATOM	223	C		GLY	A	24	38.193	86.092	149.948	0.00	0.00		C
ATOM	224	O		GLY	A	24	38.051	84.888	149.628	0.00	0.00		O
ATOM	225	HN		GLY	A	24	41.236	85.755	150.150	0.00	0.00		H
ATOM	226	HCA		GLY	A	24	39.730	87.302	150.695	0.00	0.00		H
ATOM	227	HCA		GLY	A	24	39.369	87.550	148.985	0.00	0.00		H
ATOM	228	N		GLY	A	25	37.148	86.760	150.480	0.00	0.00		N
ATOM	229	CA		GLY	A	25	35.857	86.188	150.715	0.00	0.00		C
ATOM	230	C		GLY	A	25	35.177	85.734	149.483	0.00	0.00		C
ATOM	231	O		GLY	A	25	35.129	86.525	148.513	0.00	0.00		O
ATOM	232	HN		GLY	A	25	37.287	87.693	150.706	0.00	0.00		H
ATOM	233	HCA		GLY	A	25	35.960	85.358	151.418	0.00	0.00		H
ATOM	234	HCA		GLY	A	25	35.236	86.952	151.181	0.00	0.00		H
ATOM	235	N		ASP	A	26	34.600	84.511	149.428	0.00	0.00		N
ATOM	236	CA		ASP	A	26	33.889	83.897	148.344	0.00	0.00		C
ATOM	237	C		ASP	A	26	33.138	84.828	147.444	0.00	0.00		C
ATOM	238	O		ASP	A	26	32.316	85.633	147.950	0.00	0.00		O

ATOM	239	CB	ASP	A	26	32.912	82.845	148.960	0.00	0.00	C
ATOM	240	CG	ASP	A	26	33.492	81.799	149.831	0.00	0.00	C
ATOM	241	OD1	ASP	A	26	34.211	82.062	150.822	0.00	0.00	O
ATOM	242	OD2	ASP	A	26	33.217	80.595	149.650	0.00	0.00	O
ATOM	243	HN	ASP	A	26	34.679	83.911	150.173	0.00	0.00	H
ATOM	244	HCA	ASP	A	26	34.629	83.350	147.752	0.00	0.00	H
ATOM	245	HCB	ASP	A	26	32.154	83.352	149.556	0.00	0.00	H
ATOM	246	HCB	ASP	A	26	32.396	82.348	148.137	0.00	0.00	H
ATOM	247	N	ALA	A	27	33.379	84.818	146.110	0.00	0.00	N
ATOM	248	CA	ALA	A	27	32.657	85.532	145.095	0.00	0.00	C
ATOM	249	C	ALA	A	27	32.292	84.630	143.957	0.00	0.00	C
ATOM	250	O	ALA	A	27	33.150	83.881	143.421	0.00	0.00	O
ATOM	251	CB	ALA	A	27	33.553	86.717	144.664	0.00	0.00	C
ATOM	252	HN	ALA	A	27	34.148	84.327	145.807	0.00	0.00	H
ATOM	253	HCA	ALA	A	27	31.733	85.955	145.506	0.00	0.00	H
ATOM	254	HCB	ALA	A	27	33.873	87.293	145.536	0.00	0.00	H
ATOM	255	HCB	ALA	A	27	34.438	86.374	144.127	0.00	0.00	H
ATOM	256	HCB	ALA	A	27	32.988	87.381	144.020	0.00	0.00	H
ATOM	257	N	GLN	A	28	31.019	84.569	143.500	0.00	0.00	N
ATOM	258	CA	GLN	A	28	30.511	83.647	142.528	0.00	0.00	C
ATOM	259	C	GLN	A	28	31.184	83.737	141.233	0.00	0.00	C
ATOM	260	O	GLN	A	28	31.085	84.762	140.574	0.00	0.00	O
ATOM	261	CB	GLN	A	28	28.972	83.824	142.361	0.00	0.00	C
ATOM	262	CG	GLN	A	28	28.109	83.896	143.652	0.00	0.00	C
ATOM	263	CD	GLN	A	28	27.895	85.230	144.263	0.00	0.00	C
ATOM	264	NE2	GLN	A	28	26.750	85.470	144.912	0.00	0.00	N
ATOM	265	OE1	GLN	A	28	28.773	86.119	144.316	0.00	0.00	O
ATOM	266	HN	GLN	A	28	30.363	85.161	143.859	0.00	0.00	H
ATOM	267	HNE2	GLN	A	28	26.105	84.766	144.954	0.00	0.00	H
ATOM	268	HNE2	GLN	A	28	26.645	86.261	145.441	0.00	0.00	H
ATOM	269	HCA	GLN	A	28	30.667	82.648	142.931	0.00	0.00	H
ATOM	270	HCB	GLN	A	28	28.783	84.703	141.751	0.00	0.00	H
ATOM	271	HCB	GLN	A	28	28.610	82.958	141.808	0.00	0.00	H
ATOM	272	HCG	GLN	A	28	27.124	83.489	143.407	0.00	0.00	H
ATOM	273	HCG	GLN	A	28	28.541	83.230	144.398	0.00	0.00	H
ATOM	274	N	GLY	A	29	31.896	82.718	140.786	0.00	0.00	N
ATOM	275	CA	GLY	A	29	32.584	82.651	139.527	0.00	0.00	C
ATOM	276	C	GLY	A	29	34.042	82.534	139.696	0.00	0.00	C
ATOM	277	O	GLY	A	29	34.747	82.320	138.679	0.00	0.00	O
ATOM	278	HN	GLY	A	29	31.995	81.957	141.380	0.00	0.00	H
ATOM	279	HCA	GLY	A	29	32.228	81.758	139.009	0.00	0.00	H
ATOM	280	HCA	GLY	A	29	32.379	83.508	138.881	0.00	0.00	H
ATOM	281	N	MET	A	30	34.632	82.599	140.916	0.00	0.00	N
ATOM	282	CA	MET	A	30	35.997	82.219	141.158	0.00	0.00	C
ATOM	283	C	MET	A	30	36.253	80.818	140.685	0.00	0.00	C
ATOM	284	O	MET	A	30	37.296	80.583	140.035	0.00	0.00	O
ATOM	285	CB	MET	A	30	36.341	82.428	142.654	0.00	0.00	C
ATOM	286	CG	MET	A	30	36.316	83.905	143.126	0.00	0.00	C
ATOM	287	SD	MET	A	30	36.274	83.988	144.937	0.00	0.00	S
ATOM	288	CE	MET	A	30	38.050	84.010	145.248	0.00	0.00	C
ATOM	289	HN	MET	A	30	34.106	82.913	141.669	0.00	0.00	H
ATOM	290	HCA	MET	A	30	36.639	82.896	140.584	0.00	0.00	H
ATOM	291	HCB	MET	A	30	35.622	81.862	143.247	0.00	0.00	H
ATOM	292	HCB	MET	A	30	37.342	82.032	142.843	0.00	0.00	H
ATOM	293	HCE	MET	A	30	38.552	83.218	144.697	0.00	0.00	H
ATOM	294	HCE	MET	A	30	38.463	84.974	144.950	0.00	0.00	H
ATOM	295	HCE	MET	A	30	38.218	83.866	146.315	0.00	0.00	H
ATOM	296	HCG	MET	A	30	37.167	84.456	142.732	0.00	0.00	H
ATOM	297	HCG	MET	A	30	35.430	84.409	142.750	0.00	0.00	H
ATOM	298	N	ASN	A	31	35.332	79.830	140.830	0.00	0.00	N
ATOM	299	CA	ASN	A	31	35.346	78.559	140.129	0.00	0.00	C
ATOM	300	C	ASN	A	31	35.595	78.623	138.656	0.00	0.00	C
ATOM	301	O	ASN	A	31	36.353	77.773	138.124	0.00	0.00	O
ATOM	302	CB	ASN	A	31	34.014	77.774	140.375	0.00	0.00	C
ATOM	303	CG	ASN	A	31	33.980	77.142	141.700	0.00	0.00	C
ATOM	304	ND2	ASN	A	31	32.984	77.291	142.573	0.00	0.00	N
ATOM	305	OD1	ASN	A	31	34.951	76.453	142.071	0.00	0.00	O
ATOM	306	HN	ASN	A	31	34.641	79.993	141.479	0.00	0.00	H
ATOM	307	HND2	ASN	A	31	32.138	77.634	142.289	0.00	0.00	H
ATOM	308	HND2	ASN	A	31	33.157	77.058	143.489	0.00	0.00	H
ATOM	309	HCA	ASN	A	31	36.184	77.990	140.548	0.00	0.00	H
ATOM	310	HCB	ASN	A	31	33.155	78.439	140.252	0.00	0.00	H
ATOM	311	HCB	ASN	A	31	33.906	76.964	139.651	0.00	0.00	H
ATOM	312	N	ALA	A	32	35.043	79.590	137.889	0.00	0.00	N
ATOM	313	CA	ALA	A	32	35.153	79.703	136.464	0.00	0.00	C
ATOM	314	C	ALA	A	32	36.511	80.188	136.129	0.00	0.00	C
ATOM	315	O	ALA	A	32	37.195	79.598	135.258	0.00	0.00	O
ATOM	316	CB	ALA	A	32	34.067	80.676	135.941	0.00	0.00	C
ATOM	317	HN	ALA	A	32	34.690	80.364	138.328	0.00	0.00	H
ATOM	318	HCA	ALA	A	32	34.982	78.724	136.004	0.00	0.00	H

ATOM	319	HC	B	ALA	A	32	34.268	81.704	136.241	0.00	0.00	H
ATOM	320	HC	B	ALA	A	32	34.032	80.643	134.850	0.00	0.00	H
ATOM	321	HC	B	ALA	A	32	33.087	80.397	136.331	0.00	0.00	H
ATOM	322	N		ALA	A	33	37.009	81.220	136.852	0.00	0.00	N
ATOM	323	CA		ALA	A	33	38.366	81.680	136.788	0.00	0.00	C
ATOM	324	C		ALA	A	33	39.352	80.579	137.025	0.00	0.00	C
ATOM	325	O		ALA	A	33	40.207	80.346	136.138	0.00	0.00	O
ATOM	326	CB		ALA	A	33	38.532	82.863	137.769	0.00	0.00	C
ATOM	327	HN		ALA	A	33	36.391	81.634	137.472	0.00	0.00	H
ATOM	328	HCA		ALA	A	33	38.531	82.077	135.782	0.00	0.00	H
ATOM	329	HC	B	ALA	A	33	38.349	82.553	138.796	0.00	0.00	H
ATOM	330	HC	B	ALA	A	33	39.544	83.255	137.707	0.00	0.00	H
ATOM	331	HC	B	ALA	A	33	37.835	83.666	137.518	0.00	0.00	H
ATOM	332	N		VAL	A	34	39.290	79.779	138.122	0.00	0.00	N
ATOM	333	CA		VAL	A	34	40.132	78.628	138.373	0.00	0.00	C
ATOM	334	C		VAL	A	34	40.082	77.661	137.235	0.00	0.00	C
ATOM	335	O		VAL	A	34	41.159	77.327	136.676	0.00	0.00	O
ATOM	336	CB		VAL	A	34	39.789	77.915	139.731	0.00	0.00	C
ATOM	337	CG1		VAL	A	34	40.607	76.605	139.944	0.00	0.00	C
ATOM	338	CG2		VAL	A	34	40.021	78.821	140.973	0.00	0.00	C
ATOM	339	HN		VAL	A	34	38.625	80.009	138.770	0.00	0.00	H
ATOM	340	HCA		VAL	A	34	41.158	79.000	138.458	0.00	0.00	H
ATOM	341	HC	B	VAL	A	34	38.727	77.646	139.714	0.00	0.00	H
ATOM	342	HCG1		VAL	A	34	40.342	75.852	139.200	0.00	0.00	H
ATOM	343	HCG1		VAL	A	34	41.679	76.803	139.872	0.00	0.00	H
ATOM	344	HCG1		VAL	A	34	40.401	76.181	140.925	0.00	0.00	H
ATOM	345	HCG2		VAL	A	34	39.541	79.789	140.853	0.00	0.00	H
ATOM	346	HCG2		VAL	A	34	39.604	78.353	141.868	0.00	0.00	H
ATOM	347	HCG2		VAL	A	34	41.087	78.982	141.135	0.00	0.00	H
ATOM	348	N		ARG	A	35	38.899	77.151	136.804	0.00	0.00	N
ATOM	349	CA		ARG	A	35	38.747	76.229	135.709	0.00	0.00	C
ATOM	350	C		ARG	A	35	39.441	76.691	134.477	0.00	0.00	C
ATOM	351	O		ARG	A	35	40.270	75.934	133.917	0.00	0.00	O
ATOM	352	CB		ARG	A	35	37.229	75.987	135.458	0.00	0.00	C
ATOM	353	CG		ARG	A	35	36.926	74.927	134.360	0.00	0.00	C
ATOM	354	CD		ARG	A	35	35.414	74.642	134.199	0.00	0.00	C
ATOM	355	NE		ARG	A	35	35.222	73.352	133.618	0.00	0.00	N
ATOM	356	CZ		ARG	A	35	34.627	73.056	132.457	0.00	0.00	C
ATOM	357	NH1		ARG	A	35	34.192	73.947	131.580	0.00	0.00	N
ATOM	358	NH2		ARG	A	35	34.469	71.779	132.143	0.00	0.00	N
ATOM	359	HN		ARG	A	35	38.096	77.406	137.269	0.00	0.00	H
ATOM	360	HNE		ARG	A	35	35.566	72.628	134.140	0.00	0.00	H
ATOM	361	HNH1		ARG	A	35	34.301	74.890	131.757	0.00	0.00	H
ATOM	362	HNH1		ARG	A	35	33.769	73.657	130.762	0.00	0.00	H
ATOM	363	HNH2		ARG	A	35	34.765	71.109	132.768	0.00	0.00	H
ATOM	364	HNH2		ARG	A	35	34.020	71.531	131.322	0.00	0.00	H
ATOM	365	HCA		ARG	A	35	39.189	75.279	136.025	0.00	0.00	H
ATOM	366	HC	B	ARG	A	35	36.784	75.648	136.399	0.00	0.00	H
ATOM	367	HC	B	ARG	A	35	36.747	76.929	135.184	0.00	0.00	H
ATOM	368	HCD		ARG	A	35	34.939	74.617	135.183	0.00	0.00	H
ATOM	369	HCD		ARG	A	35	34.951	75.450	133.627	0.00	0.00	H
ATOM	370	HCG		ARG	A	35	37.318	75.262	133.396	0.00	0.00	H
ATOM	371	HCG		ARG	A	35	37.443	74.004	134.619	0.00	0.00	H
ATOM	372	N		ALA	A	36	39.200	77.930	133.992	0.00	0.00	N
ATOM	373	CA		ALA	A	36	39.851	78.503	132.854	0.00	0.00	C
ATOM	374	C		ALA	A	36	41.324	78.613	133.006	0.00	0.00	C
ATOM	375	O		ALA	A	36	42.037	78.136	132.093	0.00	0.00	O
ATOM	376	CB		ALA	A	36	39.196	79.860	132.542	0.00	0.00	C
ATOM	377	HN		ALA	A	36	38.548	78.469	134.444	0.00	0.00	H
ATOM	378	HCA		ALA	A	36	39.641	77.851	132.004	0.00	0.00	H
ATOM	379	HC	B	ALA	A	36	39.273	80.537	133.395	0.00	0.00	H
ATOM	380	HC	B	ALA	A	36	39.666	80.327	131.673	0.00	0.00	H
ATOM	381	HC	B	ALA	A	36	38.141	79.691	132.314	0.00	0.00	H
ATOM	382	N		VAL	A	37	41.900	79.151	134.111	0.00	0.00	N
ATOM	383	CA		VAL	A	37	43.323	79.184	134.364	0.00	0.00	C
ATOM	384	C		VAL	A	37	43.919	77.826	134.195	0.00	0.00	C
ATOM	385	O		VAL	A	37	44.867	77.672	133.383	0.00	0.00	O
ATOM	386	CB		VAL	A	37	43.636	79.819	135.766	0.00	0.00	C
ATOM	387	CG1		VAL	A	37	45.117	79.652	136.215	0.00	0.00	C
ATOM	388	CG2		VAL	A	37	43.289	81.334	135.806	0.00	0.00	C
ATOM	389	HN		VAL	A	37	41.321	79.525	134.778	0.00	0.00	H
ATOM	390	HCA		VAL	A	37	43.757	79.838	133.605	0.00	0.00	H
ATOM	391	HC	B	VAL	A	37	43.012	79.317	136.512	0.00	0.00	H
ATOM	392	HCG1		VAL	A	37	45.351	78.600	136.390	0.00	0.00	H
ATOM	393	HCG1		VAL	A	37	45.793	80.040	135.453	0.00	0.00	H
ATOM	394	HCG1		VAL	A	37	45.305	80.193	137.144	0.00	0.00	H
ATOM	395	HCG2		VAL	A	37	42.285	81.512	135.433	0.00	0.00	H
ATOM	396	HCG2		VAL	A	37	43.332	81.705	136.831	0.00	0.00	H
ATOM	397	HCG2		VAL	A	37	43.986	81.909	135.193	0.00	0.00	H
ATOM	398	N		VAL	A	38	43.398	76.760	134.853	0.00	0.00	N

ATOM	399	CA	VAL	A	38	43.863	75.402	134.707	0.00	0.00	C
ATOM	400	C	VAL	A	38	43.822	74.948	133.288	0.00	0.00	C
ATOM	401	O	VAL	A	38	44.880	74.558	132.731	0.00	0.00	O
ATOM	402	CB	VAL	A	38	43.100	74.441	135.682	0.00	0.00	C
ATOM	403	CG1	VAL	A	38	43.444	72.943	135.439	0.00	0.00	C
ATOM	404	CG2	VAL	A	38	43.374	74.782	137.176	0.00	0.00	C
ATOM	405	HN	VAL	A	38	42.660	76.933	135.446	0.00	0.00	H
ATOM	406	HCA	VAL	A	38	44.906	75.391	135.006	0.00	0.00	H
ATOM	407	HCB	VAL	A	38	42.027	74.568	135.508	0.00	0.00	H
ATOM	408	HCG1	VAL	A	38	43.095	72.621	134.457	0.00	0.00	H
ATOM	409	HCG1	VAL	A	38	44.523	72.780	135.494	0.00	0.00	H
ATOM	410	HCG1	VAL	A	38	42.961	72.306	136.179	0.00	0.00	H
ATOM	411	HCG2	VAL	A	38	44.397	74.531	137.452	0.00	0.00	H
ATOM	412	HCG2	VAL	A	38	43.212	75.841	137.376	0.00	0.00	H
ATOM	413	HCG2	VAL	A	38	42.704	74.216	137.821	0.00	0.00	H
ATOM	414	N	ARG	A	39	42.661	74.963	132.597	0.00	0.00	N
ATOM	415	CA	ARG	A	39	42.499	74.513	131.243	0.00	0.00	C
ATOM	416	C	ARG	A	39	43.436	75.168	130.289	0.00	0.00	C
ATOM	417	O	ARG	A	39	44.134	74.450	129.532	0.00	0.00	O
ATOM	418	CB	ARG	A	39	41.017	74.729	130.816	0.00	0.00	C
ATOM	419	CG	ARG	A	39	40.007	73.744	131.474	0.00	0.00	C
ATOM	420	CD	ARG	A	39	40.002	72.359	130.790	0.00	0.00	C
ATOM	421	NE	ARG	A	39	39.345	71.353	131.552	0.00	0.00	N
ATOM	422	CZ	ARG	A	39	38.037	71.120	131.599	0.00	0.00	C
ATOM	423	NH1	ARG	A	39	37.117	71.729	130.860	0.00	0.00	N
ATOM	424	NH2	ARG	A	39	37.638	70.210	132.475	0.00	0.00	N
ATOM	425	HN	ARG	A	39	41.884	75.292	133.052	0.00	0.00	H
ATOM	426	HNE	ARG	A	39	39.884	70.805	132.137	0.00	0.00	H
ATOM	427	HNH1	ARG	A	39	37.337	72.194	130.048	0.00	0.00	H
ATOM	428	HNH1	ARG	A	39	36.221	71.702	131.163	0.00	0.00	H
ATOM	429	HNH2	ARG	A	39	38.288	69.729	132.990	0.00	0.00	H
ATOM	430	HNH2	ARG	A	39	36.703	70.016	132.570	0.00	0.00	H
ATOM	431	HCA	ARG	A	39	42.720	73.442	131.232	0.00	0.00	H
ATOM	432	HCB	ARG	A	39	40.731	75.750	131.081	0.00	0.00	H
ATOM	433	HCB	ARG	A	39	40.930	74.642	129.729	0.00	0.00	H
ATOM	434	HCD	ARG	A	39	39.558	72.453	129.798	0.00	0.00	H
ATOM	435	HCD	ARG	A	39	41.030	72.023	130.667	0.00	0.00	H
ATOM	436	HCG	ARG	A	39	40.248	73.630	132.529	0.00	0.00	H
ATOM	437	HCG	ARG	A	39	39.000	74.166	131.408	0.00	0.00	H
ATOM	438	N	VAL	A	40	43.562	76.515	130.261	0.00	0.00	N
ATOM	439	CA	VAL	A	40	44.441	77.255	129.396	0.00	0.00	C
ATOM	440	C	VAL	A	40	45.862	76.915	129.699	0.00	0.00	C
ATOM	441	O	VAL	A	40	46.614	76.594	128.745	0.00	0.00	O
ATOM	442	CB	VAL	A	40	44.148	78.789	129.485	0.00	0.00	C
ATOM	443	CG1	VAL	A	40	45.041	79.620	128.515	0.00	0.00	C
ATOM	444	CG2	VAL	A	40	42.657	79.138	129.194	0.00	0.00	C
ATOM	445	HN	VAL	A	40	43.040	77.021	130.884	0.00	0.00	H
ATOM	446	HCA	VAL	A	40	44.214	76.958	128.367	0.00	0.00	H
ATOM	447	HCB	VAL	A	40	44.365	79.109	130.509	0.00	0.00	H
ATOM	448	HCG1	VAL	A	40	46.098	79.467	128.723	0.00	0.00	H
ATOM	449	HCG1	VAL	A	40	44.860	79.327	127.478	0.00	0.00	H
ATOM	450	HCG1	VAL	A	40	44.829	80.686	128.615	0.00	0.00	H
ATOM	451	HCG2	VAL	A	40	42.498	79.301	128.130	0.00	0.00	H
ATOM	452	HCG2	VAL	A	40	41.971	78.354	129.511	0.00	0.00	H
ATOM	453	HCG2	VAL	A	40	42.378	80.044	129.730	0.00	0.00	H
ATOM	454	N	GLY	A	41	46.329	76.893	130.976	0.00	0.00	N
ATOM	455	CA	GLY	A	41	47.643	76.479	131.380	0.00	0.00	C
ATOM	456	C	GLY	A	41	48.040	75.147	130.875	0.00	0.00	C
ATOM	457	O	GLY	A	41	49.098	75.033	130.208	0.00	0.00	O
ATOM	458	HN	GLY	A	41	45.746	77.162	131.694	0.00	0.00	H
ATOM	459	HCA	GLY	A	41	48.370	77.231	131.069	0.00	0.00	H
ATOM	460	HCA	GLY	A	41	47.661	76.446	132.468	0.00	0.00	H
ATOM	461	N	ILE	A	42	47.239	74.075	131.085	0.00	0.00	N
ATOM	462	CA	ILE	A	42	47.488	72.762	130.544	0.00	0.00	C
ATOM	463	C	ILE	A	42	47.505	72.806	129.048	0.00	0.00	C
ATOM	464	O	ILE	A	42	48.501	72.325	128.461	0.00	0.00	O
ATOM	465	CB	ILE	A	42	46.507	71.686	131.126	0.00	0.00	C
ATOM	466	CG1	ILE	A	42	46.546	71.576	132.690	0.00	0.00	C
ATOM	467	CG2	ILE	A	42	46.720	70.282	130.480	0.00	0.00	C
ATOM	468	CD1	ILE	A	42	47.833	70.987	133.320	0.00	0.00	C
ATOM	469	HN	ILE	A	42	46.449	74.217	131.612	0.00	0.00	H
ATOM	470	HCA	ILE	A	42	48.492	72.471	130.869	0.00	0.00	H
ATOM	471	HCB	ILE	A	42	45.492	72.008	130.867	0.00	0.00	H
ATOM	472	HCD1	ILE	A	42	47.973	69.949	133.019	0.00	0.00	H
ATOM	473	HCD1	ILE	A	42	48.712	71.563	133.031	0.00	0.00	H
ATOM	474	HCD1	ILE	A	42	47.751	71.016	134.408	0.00	0.00	H
ATOM	475	HCG1	ILE	A	42	46.388	72.561	133.128	0.00	0.00	H
ATOM	476	HCG1	ILE	A	42	45.704	70.959	133.013	0.00	0.00	H
ATOM	477	HCG2	ILE	A	42	46.422	70.291	129.430	0.00	0.00	H
ATOM	478	HCG2	ILE	A	42	47.770	69.988	130.533	0.00	0.00	H

ATOM	479	HCG2	ILE	A	42	46.125	69.523	130.990	0.00	0.00	H
ATOM	480	N	PHE	A	43	46.526	73.389	128.308	0.00	0.00	N
ATOM	481	CA	PHE	A	43	46.523	73.527	126.870	0.00	0.00	C
ATOM	482	C	PHE	A	43	47.813	74.049	126.325	0.00	0.00	C
ATOM	483	O	PHE	A	43	48.403	73.393	125.433	0.00	0.00	O
ATOM	484	CB	PHE	A	43	45.312	74.414	126.446	0.00	0.00	C
ATOM	485	CG	PHE	A	43	45.323	74.822	125.014	0.00	0.00	C
ATOM	486	CD1	PHE	A	43	44.882	73.929	124.014	0.00	0.00	C
ATOM	487	CD2	PHE	A	43	45.797	76.099	124.628	0.00	0.00	C
ATOM	488	CE1	PHE	A	43	44.917	74.308	122.660	0.00	0.00	C
ATOM	489	CE2	PHE	A	43	45.838	76.472	123.272	0.00	0.00	C
ATOM	490	CZ	PHE	A	43	45.396	75.575	122.285	0.00	0.00	C
ATOM	491	HN	PHE	A	43	45.763	73.739	128.772	0.00	0.00	H
ATOM	492	HCA	PHE	A	43	46.355	72.528	126.453	0.00	0.00	H
ATOM	493	HCB	PHE	A	43	44.380	73.887	126.663	0.00	0.00	H
ATOM	494	HCB	PHE	A	43	45.297	75.309	127.062	0.00	0.00	H
ATOM	495	HCD1	PHE	A	43	44.524	73.004	124.266	0.00	0.00	H
ATOM	496	HCD2	PHE	A	43	46.121	76.766	125.333	0.00	0.00	H
ATOM	497	HCE1	PHE	A	43	44.586	73.661	121.949	0.00	0.00	H
ATOM	498	HCE2	PHE	A	43	46.184	77.397	123.005	0.00	0.00	H
ATOM	499	H CZ	PHE	A	43	45.417	75.845	121.299	0.00	0.00	H
ATOM	500	N	THR	A	44	48.347	75.208	126.779	0.00	0.00	N
ATOM	501	CA	THR	A	44	49.615	75.747	126.331	0.00	0.00	C
ATOM	502	C	THR	A	44	50.821	74.997	126.795	0.00	0.00	C
ATOM	503	O	THR	A	44	51.943	75.382	126.384	0.00	0.00	O
ATOM	504	CB	THR	A	44	49.699	77.275	126.630	0.00	0.00	C
ATOM	505	CG2	THR	A	44	49.699	77.638	128.126	0.00	0.00	C
ATOM	506	OG1	THR	A	44	50.890	77.865	126.105	0.00	0.00	O
ATOM	507	HN	THR	A	44	47.836	75.678	127.448	0.00	0.00	H
ATOM	508	HCA	THR	A	44	49.628	75.673	125.239	0.00	0.00	H
ATOM	509	HCB	THR	A	44	48.842	77.765	126.155	0.00	0.00	H
ATOM	510	HCG2	THR	A	44	48.956	77.072	128.663	0.00	0.00	H
ATOM	511	HCG2	THR	A	44	50.666	77.428	128.578	0.00	0.00	H
ATOM	512	HCG2	THR	A	44	49.460	78.694	128.238	0.00	0.00	H
ATOM	513	HOG1	THR	A	44	50.899	77.709	125.150	0.00	0.00	H
ATOM	514	N	GLY	A	45	50.766	73.891	127.581	0.00	0.00	N
ATOM	515	CA	GLY	A	45	51.904	73.132	128.015	0.00	0.00	C
ATOM	516	C	GLY	A	45	52.547	73.589	129.264	0.00	0.00	C
ATOM	517	O	GLY	A	45	53.716	73.188	129.479	0.00	0.00	O
ATOM	518	HN	GLY	A	45	49.919	73.533	127.855	0.00	0.00	H
ATOM	519	HCA	GLY	A	45	51.574	72.105	128.177	0.00	0.00	H
ATOM	520	HCA	GLY	A	45	52.654	73.097	127.220	0.00	0.00	H
ATOM	521	N	ALA	A	46	51.902	74.340	130.190	0.00	0.00	N
ATOM	522	CA	ALA	A	46	52.451	74.792	131.438	0.00	0.00	C
ATOM	523	C	ALA	A	46	51.925	73.967	132.555	0.00	0.00	C
ATOM	524	O	ALA	A	46	50.726	73.600	132.545	0.00	0.00	O
ATOM	525	CB	ALA	A	46	52.106	76.284	131.652	0.00	0.00	C
ATOM	526	HN	ALA	A	46	50.977	74.553	130.059	0.00	0.00	H
ATOM	527	HCA	ALA	A	46	53.542	74.713	131.427	0.00	0.00	H
ATOM	528	HCB	ALA	A	46	52.473	76.885	130.823	0.00	0.00	H
ATOM	529	HCB	ALA	A	46	51.027	76.429	131.737	0.00	0.00	H
ATOM	530	HCB	ALA	A	46	52.586	76.644	132.562	0.00	0.00	H
ATOM	531	N	ARG	A	47	52.729	73.631	133.591	0.00	0.00	N
ATOM	532	CA	ARG	A	47	52.330	72.768	134.677	0.00	0.00	C
ATOM	533	C	ARG	A	47	51.606	73.541	135.726	0.00	0.00	C
ATOM	534	O	ARG	A	47	52.172	74.524	136.261	0.00	0.00	O
ATOM	535	CB	ARG	A	47	53.569	71.990	135.204	0.00	0.00	C
ATOM	536	CG	ARG	A	47	53.194	70.815	136.156	0.00	0.00	C
ATOM	537	CD	ARG	A	47	54.363	69.847	136.458	0.00	0.00	C
ATOM	538	NE	ARG	A	47	55.422	70.507	137.147	0.00	0.00	N
ATOM	539	CZ	ARG	A	47	56.525	69.916	137.612	0.00	0.00	C
ATOM	540	NH1	ARG	A	47	56.780	68.622	137.484	0.00	0.00	N
ATOM	541	NH2	ARG	A	47	57.421	70.655	138.243	0.00	0.00	N
ATOM	542	HN	ARG	A	47	53.601	74.035	133.589	0.00	0.00	H
ATOM	543	HNE	ARG	A	47	55.342	71.458	137.292	0.00	0.00	H
ATOM	544	HNH1	ARG	A	47	56.145	68.051	137.037	0.00	0.00	H
ATOM	545	HNH1	ARG	A	47	57.597	68.254	137.842	0.00	0.00	H
ATOM	546	HNH2	ARG	A	47	57.271	71.600	138.365	0.00	0.00	H
ATOM	547	HNH2	ARG	A	47	58.223	70.244	138.587	0.00	0.00	H
ATOM	548	HCA	ARG	A	47	51.644	72.012	134.276	0.00	0.00	H
ATOM	549	HCB	ARG	A	47	54.103	71.577	134.342	0.00	0.00	H
ATOM	550	HCB	ARG	A	47	54.247	72.681	135.713	0.00	0.00	H
ATOM	551	HCD	ARG	A	47	53.982	69.028	137.073	0.00	0.00	H
ATOM	552	HCD	ARG	A	47	54.736	69.423	135.520	0.00	0.00	H
ATOM	553	HCG	ARG	A	47	52.803	71.213	137.095	0.00	0.00	H
ATOM	554	HCG	ARG	A	47	52.397	70.221	135.698	0.00	0.00	H
ATOM	555	N	VAL	A	48	50.340	73.210	136.084	0.00	0.00	N
ATOM	556	CA	VAL	A	48	49.480	73.992	136.935	0.00	0.00	C
ATOM	557	C	VAL	A	48	49.337	73.382	138.282	0.00	0.00	C
ATOM	558	O	VAL	A	48	48.931	72.200	138.377	0.00	0.00	O



ATOM	559	CB	VAL	A	48	48.070	74.240	136.296	0.00	0.00	C
ATOM	560	CG1	VAL	A	48	47.270	75.278	137.145	0.00	0.00	C
ATOM	561	CG2	VAL	A	48	48.142	74.672	134.805	0.00	0.00	C
ATOM	562	HN	VAL	A	48	49.968	72.399	135.706	0.00	0.00	H
ATOM	563	HCA	VAL	A	48	49.926	74.977	137.065	0.00	0.00	H
ATOM	564	HCB	VAL	A	48	47.512	73.298	136.304	0.00	0.00	H
ATOM	565	HCG1	VAL	A	48	47.874	76.154	137.374	0.00	0.00	H
ATOM	566	HCG1	VAL	A	48	46.385	75.625	136.627	0.00	0.00	H
ATOM	567	HCG1	VAL	A	48	46.950	74.831	138.089	0.00	0.00	H
ATOM	568	HCG2	VAL	A	48	48.595	73.886	134.202	0.00	0.00	H
ATOM	569	HCG2	VAL	A	48	47.144	74.850	134.408	0.00	0.00	H
ATOM	570	HCG2	VAL	A	48	48.730	75.577	134.680	0.00	0.00	H
ATOM	571	N	PHE	A	49	49.578	74.130	139.384	0.00	0.00	N
ATOM	572	CA	PHE	A	49	49.352	73.736	140.749	0.00	0.00	C
ATOM	573	C	PHE	A	49	48.228	74.484	141.383	0.00	0.00	C
ATOM	574	O	PHE	A	49	48.213	75.738	141.364	0.00	0.00	O
ATOM	575	CB	PHE	A	49	50.669	73.918	141.556	0.00	0.00	C
ATOM	576	CG	PHE	A	49	51.744	72.991	141.110	0.00	0.00	C
ATOM	577	CD1	PHE	A	49	51.908	71.727	141.724	0.00	0.00	C
ATOM	578	CD2	PHE	A	49	52.610	73.349	140.051	0.00	0.00	C
ATOM	579	CE1	PHE	A	49	52.918	70.846	141.295	0.00	0.00	C
ATOM	580	CE2	PHE	A	49	53.627	72.475	139.629	0.00	0.00	C
ATOM	581	CZ	PHE	A	49	53.780	71.222	140.249	0.00	0.00	C
ATOM	582	HN	PHE	A	49	49.968	74.991	139.218	0.00	0.00	H
ATOM	583	HCA	PHE	A	49	49.095	72.675	140.799	0.00	0.00	H
ATOM	584	HCB	PHE	A	49	51.015	74.953	141.478	0.00	0.00	H
ATOM	585	HCB	PHE	A	49	50.460	73.742	142.613	0.00	0.00	H
ATOM	586	HCD1	PHE	A	49	51.288	71.438	142.482	0.00	0.00	H
ATOM	587	HCD2	PHE	A	49	52.504	74.251	139.580	0.00	0.00	H
ATOM	588	HCE1	PHE	A	49	53.026	69.931	141.738	0.00	0.00	H
ATOM	589	HCE2	PHE	A	49	54.252	72.752	138.870	0.00	0.00	H
ATOM	590	HCZ	PHE	A	49	54.514	70.582	139.941	0.00	0.00	H
ATOM	591	N	PHE	A	50	47.278	73.809	142.074	0.00	0.00	N
ATOM	592	CA	PHE	A	50	46.287	74.369	142.945	0.00	0.00	C
ATOM	593	C	PHE	A	50	46.948	74.743	144.221	0.00	0.00	C
ATOM	594	O	PHE	A	50	47.612	73.849	144.803	0.00	0.00	O
ATOM	595	CB	PHE	A	50	45.187	73.322	143.313	0.00	0.00	C
ATOM	596	CG	PHE	A	50	44.301	72.806	142.239	0.00	0.00	C
ATOM	597	CD1	PHE	A	50	43.434	73.674	141.536	0.00	0.00	C
ATOM	598	CD2	PHE	A	50	44.224	71.415	141.981	0.00	0.00	C
ATOM	599	CE1	PHE	A	50	42.485	73.159	140.632	0.00	0.00	C
ATOM	600	CE2	PHE	A	50	43.274	70.901	141.081	0.00	0.00	C
ATOM	601	CZ	PHE	A	50	42.400	71.773	140.413	0.00	0.00	C
ATOM	602	HN	PHE	A	50	47.367	72.862	142.112	0.00	0.00	H
ATOM	603	HCA	PHE	A	50	45.819	75.244	142.493	0.00	0.00	H
ATOM	604	HCB	PHE	A	50	45.677	72.478	143.808	0.00	0.00	H
ATOM	605	HCB	PHE	A	50	44.524	73.767	144.061	0.00	0.00	H
ATOM	606	HCD1	PHE	A	50	43.466	74.681	141.701	0.00	0.00	H
ATOM	607	HCD2	PHE	A	50	44.844	70.759	142.462	0.00	0.00	H
ATOM	608	HCE1	PHE	A	50	41.846	73.791	140.146	0.00	0.00	H
ATOM	609	HCE2	PHE	A	50	43.219	69.893	140.917	0.00	0.00	H
ATOM	610	HCZ	PHE	A	50	41.702	71.395	139.772	0.00	0.00	H
ATOM	611	N	VAL	A	51	46.797	75.966	144.778	0.00	0.00	N
ATOM	612	CA	VAL	A	51	47.155	76.285	146.137	0.00	0.00	C
ATOM	613	C	VAL	A	51	45.912	76.233	146.964	0.00	0.00	C
ATOM	614	O	VAL	A	51	45.031	77.109	146.793	0.00	0.00	O
ATOM	615	CB	VAL	A	51	47.901	77.657	146.191	0.00	0.00	C
ATOM	616	CG1	VAL	A	51	48.358	77.998	147.632	0.00	0.00	C
ATOM	617	CG2	VAL	A	51	49.122	77.714	145.231	0.00	0.00	C
ATOM	618	HN	VAL	A	51	46.425	76.670	144.237	0.00	0.00	H
ATOM	619	HCA	VAL	A	51	47.851	75.541	146.537	0.00	0.00	H
ATOM	620	HCB	VAL	A	51	47.205	78.435	145.873	0.00	0.00	H
ATOM	621	HCG1	VAL	A	51	49.091	77.275	147.991	0.00	0.00	H
ATOM	622	HCG1	VAL	A	51	48.803	78.990	147.646	0.00	0.00	H
ATOM	623	HCG1	VAL	A	51	47.508	78.002	148.315	0.00	0.00	H
ATOM	624	HCG2	VAL	A	51	48.803	77.570	144.197	0.00	0.00	H
ATOM	625	HCG2	VAL	A	51	49.611	78.688	145.295	0.00	0.00	H
ATOM	626	HCG2	VAL	A	51	49.849	76.940	145.479	0.00	0.00	H
ATOM	627	N	HSE	A	52	45.728	75.253	147.884	0.00	0.00	N
ATOM	628	CA	HSE	A	52	44.538	75.011	148.660	0.00	0.00	C
ATOM	629	C	HSE	A	52	44.536	75.784	149.929	0.00	0.00	C
ATOM	630	O	HSE	A	52	45.520	75.653	150.689	0.00	0.00	O
ATOM	631	CB	HSE	A	52	44.367	73.496	148.982	0.00	0.00	C
ATOM	632	CG	HSE	A	52	43.898	72.689	147.842	0.00	0.00	C
ATOM	633	CD2	HSE	A	52	42.599	72.235	147.632	0.00	0.00	C
ATOM	634	ND1	HSE	A	52	44.661	72.229	146.836	0.00	0.00	N
ATOM	635	CE1	HSE	A	52	43.862	71.503	146.035	0.00	0.00	C
ATOM	636	NE2	HSE	A	52	42.611	71.508	146.512	0.00	0.00	N
ATOM	637	HN	HSE	A	52	46.468	74.673	148.050	0.00	0.00	H
ATOM	638	HNE2	HSE	A	52	41.850	71.059	146.113	0.00	0.00	H

ATOM	639	HCA	HSE	A	52	43.679	75.314	148.069	0.00	0.00		H	
ATOM	640	HC	B	HSE	A	52	45.309	73.077	149.341	0.00	0.00	H	
ATOM	641	HC	B	HSE	A	52	43.638	73.375	149.789	0.00	0.00	H	
ATOM	642	HCD2	HSE	A	52	41.786	72.418	148.224	0.00	0.00		H	
ATOM	643	HCE1	HSE	A	52	44.163	71.016	145.189	0.00	0.00		H	
ATOM	644	N	GLU	A	53	43.479	76.555	150.284	0.00	0.00		N	
ATOM	645	CA	GLU	A	53	43.382	77.404	151.459	0.00	0.00		C	
ATOM	646	C	GLU	A	53	44.175	78.652	151.255	0.00	0.00		C	
ATOM	647	O	GLU	A	53	45.045	79.022	152.076	0.00	0.00		O	
ATOM	648	CB	GLU	A	53	43.662	76.696	152.829	0.00	0.00		C	
ATOM	649	CG	GLU	A	53	42.777	75.457	153.140	0.00	0.00		C	
ATOM	650	CD	GLU	A	53	41.350	75.765	153.338	0.00	0.00		C	
ATOM	651	OE1	GLU	A	53	40.986	76.614	154.181	0.00	0.00		O	
ATOM	652	OE2	GLU	A	53	40.469	75.169	152.683	0.00	0.00		O	
ATOM	653	HN	GLU	A	53	42.753	76.561	149.646	0.00	0.00		H	
ATOM	654	HCA	GLU	A	53	42.346	77.730	151.525	0.00	0.00		H	
ATOM	655	HC	B	GLU	A	53	44.710	76.398	152.886	0.00	0.00		H
ATOM	656	HC	B	GLU	A	53	43.512	77.420	153.635	0.00	0.00		H
ATOM	657	HCG	GLU	A	53	42.890	74.717	152.344	0.00	0.00		H	
ATOM	658	HCG	GLU	A	53	43.135	75.000	154.065	0.00	0.00		H	
ATOM	659	N	GLY	A	54	43.917	79.419	150.174	0.00	0.00		N	
ATOM	660	CA	GLY	A	54	44.678	80.532	149.661	0.00	0.00		C	
ATOM	661	C	GLY	A	54	46.051	80.786	150.182	0.00	0.00		C	
ATOM	662	O	GLY	A	54	46.978	79.957	149.989	0.00	0.00		O	
ATOM	663	HN	GLY	A	54	43.101	79.173	149.728	0.00	0.00		H	
ATOM	664	HCA	GLY	A	54	44.773	80.381	148.585	0.00	0.00		H	
ATOM	665	HCA	GLY	A	54	44.070	81.426	149.807	0.00	0.00		H	
ATOM	666	N	TYR	A	55	46.311	81.919	150.880	0.00	0.00		N	
ATOM	667	CA	TYR	A	55	47.608	82.266	151.395	0.00	0.00		C	
ATOM	668	C	TYR	A	55	48.051	81.419	152.543	0.00	0.00		C	
ATOM	669	O	TYR	A	55	49.275	81.413	152.814	0.00	0.00		O	
ATOM	670	CB	TYR	A	55	47.675	83.786	151.740	0.00	0.00		C	
ATOM	671	CG	TYR	A	55	47.696	84.727	150.583	0.00	0.00		C	
ATOM	672	CD1	TYR	A	55	48.720	84.656	149.609	0.00	0.00		C	
ATOM	673	CD2	TYR	A	55	46.740	85.763	150.466	0.00	0.00		C	
ATOM	674	CE1	TYR	A	55	48.778	85.575	148.544	0.00	0.00		C	
ATOM	675	CE2	TYR	A	55	46.822	86.706	149.423	0.00	0.00		C	
ATOM	676	CZ	TYR	A	55	47.846	86.623	148.464	0.00	0.00		C	
ATOM	677	OH	TYR	A	55	47.975	87.550	147.485	0.00	0.00		O	
ATOM	678	HN	TYR	A	55	45.573	82.523	151.056	0.00	0.00		H	
ATOM	679	HCA	TYR	A	55	48.325	82.079	150.595	0.00	0.00		H	
ATOM	680	HC	B	TYR	A	55	46.842	84.021	152.405	0.00	0.00		H
ATOM	681	HC	B	TYR	A	55	48.590	83.982	152.303	0.00	0.00		H
ATOM	682	HCD1	TYR	A	55	49.446	83.943	149.678	0.00	0.00		H	
ATOM	683	HCD2	TYR	A	55	45.989	85.852	151.156	0.00	0.00		H	
ATOM	684	HCE1	TYR	A	55	49.520	85.500	147.844	0.00	0.00		H	
ATOM	685	HCE2	TYR	A	55	46.142	87.457	149.369	0.00	0.00		H	
ATOM	686	HOH	TYR	A	55	47.441	88.358	147.442	0.00	0.00		H	
ATOM	687	N	GLN	A	56	47.227	80.586	153.229	0.00	0.00		N	
ATOM	688	CA	GLN	A	56	47.637	79.685	154.278	0.00	0.00		C	
ATOM	689	C	GLN	A	56	48.270	78.547	153.638	0.00	0.00		C	
ATOM	690	O	GLN	A	56	49.377	78.188	154.006	0.00	0.00		O	
ATOM	691	CB	GLN	A	56	46.426	79.263	155.159	0.00	0.00		C	
ATOM	692	CG	GLN	A	56	46.798	78.363	156.371	0.00	0.00		C	
ATOM	693	CD	GLN	A	56	45.617	77.999	157.176	0.00	0.00		C	
ATOM	694	NE2	GLN	A	56	45.458	78.420	158.435	0.00	0.00		N	
ATOM	695	OE1	GLN	A	56	44.712	77.283	156.700	0.00	0.00		O	
ATOM	696	HN	GLN	A	56	46.345	80.427	152.877	0.00	0.00		H	
ATOM	697	HNE2	GLN	A	56	46.127	78.981	158.851	0.00	0.00		H	
ATOM	698	HNE2	GLN	A	56	44.665	78.159	158.923	0.00	0.00		H	
ATOM	699	HCA	GLN	A	56	48.360	80.182	154.931	0.00	0.00		H	
ATOM	700	HC	B	GLN	A	56	45.960	80.167	155.548	0.00	0.00		H
ATOM	701	HC	B	GLN	A	56	45.686	78.743	154.547	0.00	0.00		H
ATOM	702	HCG	GLN	A	56	47.261	77.437	156.024	0.00	0.00		H	
ATOM	703	HCG	GLN	A	56	47.525	78.885	156.998	0.00	0.00		H	
ATOM	704	N	GLY	A	57	47.677	77.992	152.596	0.00	0.00		N	
ATOM	705	CA	GLY	A	57	48.252	77.031	151.719	0.00	0.00		C	
ATOM	706	C	GLY	A	57	49.548	77.451	151.166	0.00	0.00		C	
ATOM	707	O	GLY	A	57	50.520	76.671	151.295	0.00	0.00		O	
ATOM	708	HN	GLY	A	57	46.797	78.308	152.396	0.00	0.00		H	
ATOM	709	HCA	GLY	A	57	48.349	76.095	152.268	0.00	0.00		H	
ATOM	710	HCA	GLY	A	57	47.586	76.886	150.874	0.00	0.00		H	
ATOM	711	N	LEU	A	58	49.662	78.667	150.573	0.00	0.00		N	
ATOM	712	CA	LEU	A	58	50.912	79.215	150.108	0.00	0.00		C	
ATOM	713	C	LEU	A	58	51.960	79.263	151.168	0.00	0.00		C	
ATOM	714	O	LEU	A	58	53.063	78.709	150.943	0.00	0.00		O	
ATOM	715	CB	LEU	A	58	50.727	80.628	149.475	0.00	0.00		C	
ATOM	716	CG	LEU	A	58	51.917	81.098	148.577	0.00	0.00		C	
ATOM	717	CD1	LEU	A	58	52.042	80.289	147.259	0.00	0.00		C	
ATOM	718	CD2	LEU	A	58	51.831	82.618	148.264	0.00	0.00		C	

ATOM	719	HN	LEU	A	58	48.841	79.156	150.431	0.00	0.00	H
ATOM	720	HCA	LEU	A	58	51.247	78.534	149.322	0.00	0.00	H
ATOM	721	HC	LEU	A	58	49.815	80.641	148.883	0.00	0.00	H
ATOM	722	HC	LEU	A	58	50.585	81.350	150.283	0.00	0.00	H
ATOM	723	HCD1	LEU	A	58	51.099	80.267	146.716	0.00	0.00	H
ATOM	724	HCD1	LEU	A	58	52.793	80.744	146.620	0.00	0.00	H
ATOM	725	HCD1	LEU	A	58	52.358	79.263	147.452	0.00	0.00	H
ATOM	726	HCD2	LEU	A	58	50.951	82.848	147.668	0.00	0.00	H
ATOM	727	HCD2	LEU	A	58	51.785	83.195	149.188	0.00	0.00	H
ATOM	728	HCD2	LEU	A	58	52.710	82.947	147.707	0.00	0.00	H
ATOM	729	HCG	LEU	A	58	52.844	80.941	149.132	0.00	0.00	H
ATOM	730	N	VAL	A	59	51.735	79.891	152.351	0.00	0.00	N
ATOM	731	CA	VAL	A	59	52.659	79.943	153.457	0.00	0.00	C
ATOM	732	C	VAL	A	59	53.066	78.575	153.896	0.00	0.00	C
ATOM	733	O	VAL	A	59	54.289	78.323	153.988	0.00	0.00	O
ATOM	734	CB	VAL	A	59	52.056	80.827	154.608	0.00	0.00	C
ATOM	735	CG1	VAL	A	59	52.803	80.700	155.968	0.00	0.00	C
ATOM	736	CG2	VAL	A	59	52.015	82.332	154.209	0.00	0.00	C
ATOM	737	HN	VAL	A	59	50.896	80.346	152.468	0.00	0.00	H
ATOM	738	HCA	VAL	A	59	53.561	80.453	153.103	0.00	0.00	H
ATOM	739	HC	VAL	A	59	51.025	80.498	154.785	0.00	0.00	H
ATOM	740	HCG1	VAL	A	59	53.864	80.927	155.847	0.00	0.00	H
ATOM	741	HCG1	VAL	A	59	52.380	81.382	156.708	0.00	0.00	H
ATOM	742	HCG1	VAL	A	59	52.703	79.688	156.363	0.00	0.00	H
ATOM	743	HCG2	VAL	A	59	51.541	82.471	153.238	0.00	0.00	H
ATOM	744	HCG2	VAL	A	59	51.449	82.908	154.944	0.00	0.00	H
ATOM	745	HCG2	VAL	A	59	53.023	82.741	154.148	0.00	0.00	H
ATOM	746	N	ASP	A	60	52.163	77.610	154.189	0.00	0.00	N
ATOM	747	CA	ASP	A	60	52.463	76.279	154.641	0.00	0.00	C
ATOM	748	C	ASP	A	60	53.202	75.463	153.632	0.00	0.00	C
ATOM	749	O	ASP	A	60	54.383	75.125	153.895	0.00	0.00	O
ATOM	750	CB	ASP	A	60	51.143	75.581	155.092	0.00	0.00	C
ATOM	751	CG	ASP	A	60	50.483	76.171	156.272	0.00	0.00	C
ATOM	752	OD1	ASP	A	60	50.982	77.109	156.933	0.00	0.00	O
ATOM	753	OD2	ASP	A	60	49.391	75.709	156.665	0.00	0.00	O
ATOM	754	HN	ASP	A	60	51.239	77.834	154.110	0.00	0.00	H
ATOM	755	HCA	ASP	A	60	53.099	76.368	155.529	0.00	0.00	H
ATOM	756	HC	ASP	A	60	50.427	75.589	154.266	0.00	0.00	H
ATOM	757	HC	ASP	A	60	51.353	74.537	155.338	0.00	0.00	H
ATOM	758	N	GLY	A	61	52.667	75.125	152.431	0.00	0.00	N
ATOM	759	CA	GLY	A	61	53.282	74.273	151.445	0.00	0.00	C
ATOM	760	C	GLY	A	61	52.855	72.857	151.399	0.00	0.00	C
ATOM	761	O	GLY	A	61	51.799	72.451	151.944	0.00	0.00	O
ATOM	762	HN	GLY	A	61	51.851	75.555	152.171	0.00	0.00	H
ATOM	763	HCA	GLY	A	61	53.083	74.712	150.470	0.00	0.00	H
ATOM	764	HCA	GLY	A	61	54.366	74.274	151.572	0.00	0.00	H
ATOM	765	N	GLY	A	62	53.668	72.000	150.735	0.00	0.00	N
ATOM	766	CA	GLY	A	62	53.556	70.574	150.699	0.00	0.00	C
ATOM	767	C	GLY	A	62	52.239	70.079	150.251	0.00	0.00	C
ATOM	768	O	GLY	A	62	51.841	70.344	149.088	0.00	0.00	O
ATOM	769	HN	GLY	A	62	54.438	72.393	150.296	0.00	0.00	H
ATOM	770	HCA	GLY	A	62	54.316	70.177	150.025	0.00	0.00	H
ATOM	771	HCA	GLY	A	62	53.790	70.194	151.697	0.00	0.00	H
ATOM	772	N	ASP	A	63	51.487	69.395	151.141	0.00	0.00	N
ATOM	773	CA	ASP	A	63	50.176	68.862	150.930	0.00	0.00	C
ATOM	774	C	ASP	A	63	49.169	69.895	150.559	0.00	0.00	C
ATOM	775	O	ASP	A	63	48.124	69.509	149.982	0.00	0.00	O
ATOM	776	CB	ASP	A	63	49.782	68.101	152.232	0.00	0.00	C
ATOM	777	CG	ASP	A	63	48.523	67.347	152.137	0.00	0.00	C
ATOM	778	OD1	ASP	A	63	48.398	66.404	151.328	0.00	0.00	O
ATOM	779	OD2	ASP	A	63	47.551	67.610	152.876	0.00	0.00	O
ATOM	780	HN	ASP	A	63	51.878	69.261	152.018	0.00	0.00	H
ATOM	781	HCA	ASP	A	63	50.248	68.143	150.106	0.00	0.00	H
ATOM	782	HC	ASP	A	63	50.564	67.381	152.485	0.00	0.00	H
ATOM	783	HC	ASP	A	63	49.710	68.815	153.058	0.00	0.00	H
ATOM	784	N	HSE	A	64	49.365	71.219	150.790	0.00	0.00	N
ATOM	785	CA	HSE	A	64	48.450	72.247	150.384	0.00	0.00	C
ATOM	786	C	HSE	A	64	48.742	72.735	149.008	0.00	0.00	C
ATOM	787	O	HSE	A	64	47.954	73.576	148.518	0.00	0.00	O
ATOM	788	CB	HSE	A	64	48.463	73.410	151.412	0.00	0.00	C
ATOM	789	CG	HSE	A	64	47.968	73.032	152.751	0.00	0.00	C
ATOM	790	CD2	HSE	A	64	46.827	73.513	153.386	0.00	0.00	C
ATOM	791	ND1	HSE	A	64	48.559	72.160	153.585	0.00	0.00	N
ATOM	792	CE1	HSE	A	64	47.810	72.099	154.699	0.00	0.00	C
ATOM	793	NE2	HSE	A	64	46.759	72.920	154.582	0.00	0.00	N
ATOM	794	HN	HSE	A	64	50.179	71.515	151.211	0.00	0.00	H
ATOM	795	HNE2	HSE	A	64	46.070	73.058	155.250	0.00	0.00	H
ATOM	796	HCA	HSE	A	64	47.427	71.855	150.361	0.00	0.00	H
ATOM	797	HC	HSE	A	64	49.473	73.812	151.515	0.00	0.00	H
ATOM	798	HC	HSE	A	64	47.823	74.205	151.028	0.00	0.00	H

ATOM	799	HCD2	HSE	A	64	46.163	74.193	153.014	0.00	0.00	H
ATOM	800	HCE1	HSE	A	64	48.014	71.514	155.513	0.00	0.00	H
ATOM	801	N	ILE	A	65	49.792	72.297	148.268	0.00	0.00	N
ATOM	802	CA	ILE	A	65	50.062	72.667	146.903	0.00	0.00	C
ATOM	803	C	ILE	A	65	49.923	71.416	146.106	0.00	0.00	C
ATOM	804	O	ILE	A	65	50.614	70.409	146.423	0.00	0.00	O
ATOM	805	CB	ILE	A	65	51.449	73.392	146.787	0.00	0.00	C
ATOM	806	CG1	ILE	A	65	51.478	74.694	147.658	0.00	0.00	C
ATOM	807	CG2	ILE	A	65	51.807	73.710	145.305	0.00	0.00	C
ATOM	808	CD1	ILE	A	65	52.820	75.467	147.664	0.00	0.00	C
ATOM	809	HN	ILE	A	65	50.404	71.660	148.648	0.00	0.00	H
ATOM	810	HCA	ILE	A	65	49.321	73.377	146.537	0.00	0.00	H
ATOM	811	HCB	ILE	A	65	52.212	72.718	147.181	0.00	0.00	H
ATOM	812	HCD1	ILE	A	65	53.647	74.796	147.901	0.00	0.00	H
ATOM	813	HCD1	ILE	A	65	53.005	75.932	146.695	0.00	0.00	H
ATOM	814	HCD1	ILE	A	65	52.786	76.261	148.413	0.00	0.00	H
ATOM	815	HCG1	ILE	A	65	50.691	75.373	147.322	0.00	0.00	H
ATOM	816	HCG1	ILE	A	65	51.253	74.434	148.696	0.00	0.00	H
ATOM	817	HCG2	ILE	A	65	51.721	72.825	144.678	0.00	0.00	H
ATOM	818	HCG2	ILE	A	65	51.141	74.480	144.910	0.00	0.00	H
ATOM	819	HCG2	ILE	A	65	52.836	74.061	145.221	0.00	0.00	H
ATOM	820	N	ARG	A	66	49.034	71.335	145.075	0.00	0.00	N
ATOM	821	CA	ARG	A	66	48.769	70.116	144.346	0.00	0.00	C
ATOM	822	C	ARG	A	66	48.481	70.211	142.890	0.00	0.00	C
ATOM	823	O	ARG	A	66	47.636	71.020	142.450	0.00	0.00	O
ATOM	824	CB	ARG	A	66	47.723	69.247	145.118	0.00	0.00	C
ATOM	825	CG	ARG	A	66	47.918	67.704	144.992	0.00	0.00	C
ATOM	826	CD	ARG	A	66	49.073	67.107	145.848	0.00	0.00	C
ATOM	827	NE	ARG	A	66	50.338	67.656	145.477	0.00	0.00	N
ATOM	828	CZ	ARG	A	66	51.142	67.217	144.502	0.00	0.00	C
ATOM	829	NH1	ARG	A	66	50.880	66.155	143.755	0.00	0.00	N
ATOM	830	NH2	ARG	A	66	52.238	67.892	144.192	0.00	0.00	N
ATOM	831	HN	ARG	A	66	48.519	72.128	144.901	0.00	0.00	H
ATOM	832	HNE	ARG	A	66	50.550	68.505	145.869	0.00	0.00	H
ATOM	833	HNH1	ARG	A	66	50.081	65.641	143.916	0.00	0.00	H
ATOM	834	HNH1	ARG	A	66	51.487	65.897	143.050	0.00	0.00	H
ATOM	835	HNH2	ARG	A	66	52.479	68.695	144.641	0.00	0.00	H
ATOM	836	HNH2	ARG	A	66	52.806	67.556	143.486	0.00	0.00	H
ATOM	837	HCA	ARG	A	66	49.721	69.611	144.338	0.00	0.00	H
ATOM	838	HCB	ARG	A	66	47.738	69.495	146.184	0.00	0.00	H
ATOM	839	HCB	ARG	A	66	46.722	69.508	144.760	0.00	0.00	H
ATOM	840	HCD	ARG	A	66	48.897	67.340	146.902	0.00	0.00	H
ATOM	841	HCD	ARG	A	66	49.072	66.016	145.760	0.00	0.00	H
ATOM	842	HCG	ARG	A	66	46.992	67.222	145.319	0.00	0.00	H
ATOM	843	HCG	ARG	A	66	48.062	67.433	143.944	0.00	0.00	H
ATOM	844	N	GLU	A	67	49.134	69.374	142.044	0.00	0.00	N
ATOM	845	CA	GLU	A	67	49.088	69.384	140.610	0.00	0.00	C
ATOM	846	C	GLU	A	67	47.721	69.167	140.056	0.00	0.00	C
ATOM	847	O	GLU	A	67	47.061	68.160	140.407	0.00	0.00	O
ATOM	848	CB	GLU	A	67	50.106	68.325	140.093	0.00	0.00	C
ATOM	849	CG	GLU	A	67	50.453	68.479	138.584	0.00	0.00	C
ATOM	850	CD	GLU	A	67	51.440	67.490	138.121	0.00	0.00	C
ATOM	851	OE1	GLU	A	67	52.579	67.432	138.631	0.00	0.00	O
ATOM	852	OE2	GLU	A	67	51.178	66.692	137.196	0.00	0.00	O
ATOM	853	HN	GLU	A	67	49.706	68.715	142.459	0.00	0.00	H
ATOM	854	HCA	GLU	A	67	49.455	70.362	140.289	0.00	0.00	H
ATOM	855	HCB	GLU	A	67	51.037	68.423	140.660	0.00	0.00	H
ATOM	856	HCB	GLU	A	67	49.714	67.319	140.278	0.00	0.00	H
ATOM	857	HCG	GLU	A	67	49.543	68.381	137.987	0.00	0.00	H
ATOM	858	HCG	GLU	A	67	50.869	69.472	138.403	0.00	0.00	H
ATOM	859	N	ALA	A	68	47.220	70.042	139.155	0.00	0.00	N
ATOM	860	CA	ALA	A	68	45.952	69.961	138.487	0.00	0.00	C
ATOM	861	C	ALA	A	68	46.080	69.348	137.136	0.00	0.00	C
ATOM	862	O	ALA	A	68	47.195	69.332	136.561	0.00	0.00	O
ATOM	863	CB	ALA	A	68	45.386	71.398	138.390	0.00	0.00	C
ATOM	864	HN	ALA	A	68	47.789	70.766	138.902	0.00	0.00	H
ATOM	865	HCA	ALA	A	68	45.254	69.356	139.076	0.00	0.00	H
ATOM	866	HCB	ALA	A	68	45.405	71.886	139.366	0.00	0.00	H
ATOM	867	HCB	ALA	A	68	45.978	72.001	137.700	0.00	0.00	H
ATOM	868	HCB	ALA	A	68	44.354	71.374	138.038	0.00	0.00	H
ATOM	869	N	THR	A	69	45.002	68.803	136.524	0.00	0.00	N
ATOM	870	CA	THR	A	69	44.990	68.197	135.214	0.00	0.00	C
ATOM	871	C	THR	A	69	43.802	68.675	134.451	0.00	0.00	C
ATOM	872	O	THR	A	69	43.617	69.914	134.418	0.00	0.00	O
ATOM	873	CB	THR	A	69	45.205	66.659	135.374	0.00	0.00	C
ATOM	874	CG2	THR	A	69	44.161	65.932	136.255	0.00	0.00	C
ATOM	875	OG1	THR	A	69	45.328	66.012	134.109	0.00	0.00	O
ATOM	876	HN	THR	A	69	44.169	68.805	136.996	0.00	0.00	H
ATOM	877	HCA	THR	A	69	45.842	68.560	134.629	0.00	0.00	H
ATOM	878	HCB	THR	A	69	46.177	66.522	135.859	0.00	0.00	H

ATOM	879	HCG2	THR	A	69	43.150	66.107	135.893	0.00	0.00	H
ATOM	880	HCG2	THR	A	69	44.352	64.857	136.250	0.00	0.00	H
ATOM	881	HCG2	THR	A	69	44.227	66.283	137.286	0.00	0.00	H
ATOM	882	HOG1	THR	A	69	44.457	65.638	133.909	0.00	0.00	H
ATOM	883	N	TRP	A	70	42.933	67.881	133.777	0.00	0.00	N
ATOM	884	CA	TRP	A	70	41.807	68.317	132.984	0.00	0.00	C
ATOM	885	C	TRP	A	70	40.554	67.885	133.665	0.00	0.00	C
ATOM	886	O	TRP	A	70	39.638	68.696	133.962	0.00	0.00	O
ATOM	887	CB	TRP	A	70	41.986	67.692	131.563	0.00	0.00	C
ATOM	888	CG	TRP	A	70	41.272	68.436	130.505	0.00	0.00	C
ATOM	889	CD1	TRP	A	70	39.930	68.301	130.143	0.00	0.00	C
ATOM	890	CD2	TRP	A	70	41.790	69.438	129.684	0.00	0.00	C
ATOM	891	CE2	TRP	A	70	40.745	69.887	128.880	0.00	0.00	C
ATOM	892	CE3	TRP	A	70	43.069	70.018	129.593	0.00	0.00	C
ATOM	893	NE1	TRP	A	70	39.642	69.181	129.167	0.00	0.00	N
ATOM	894	CZ2	TRP	A	70	40.930	70.954	127.985	0.00	0.00	C
ATOM	895	CZ3	TRP	A	70	43.274	71.070	128.675	0.00	0.00	C
ATOM	896	CH2	TRP	A	70	42.207	71.541	127.878	0.00	0.00	C
ATOM	897	HN	TRP	A	70	43.060	66.930	133.785	0.00	0.00	H
ATOM	898	HNE1	TRP	A	70	38.775	69.299	128.748	0.00	0.00	H
ATOM	899	HCA	TRP	A	70	41.790	69.408	132.887	0.00	0.00	H
ATOM	900	HCB	TRP	A	70	43.048	67.680	131.302	0.00	0.00	H
ATOM	901	HCB	TRP	A	70	41.660	66.650	131.547	0.00	0.00	H
ATOM	902	HCD1	TRP	A	70	39.266	67.644	130.559	0.00	0.00	H
ATOM	903	HCE3	TRP	A	70	43.831	69.691	130.185	0.00	0.00	H
ATOM	904	HCH2	TRP	A	70	42.358	72.316	127.229	0.00	0.00	H
ATOM	905	HCZ2	TRP	A	70	40.145	71.311	127.445	0.00	0.00	H
ATOM	906	HCZ3	TRP	A	70	44.196	71.502	128.591	0.00	0.00	H
ATOM	907	N	GLU	A	71	40.487	66.586	134.026	0.00	0.00	N
ATOM	908	CA	GLU	A	71	39.488	65.880	134.761	0.00	0.00	C
ATOM	909	C	GLU	A	71	39.210	66.553	136.056	0.00	0.00	C
ATOM	910	O	GLU	A	71	38.033	66.784	136.424	0.00	0.00	O
ATOM	911	CB	GLU	A	71	39.978	64.411	135.013	0.00	0.00	C
ATOM	912	CG	GLU	A	71	40.772	63.701	133.866	0.00	0.00	C
ATOM	913	CD	GLU	A	71	42.235	63.917	133.886	0.00	0.00	C
ATOM	914	OE1	GLU	A	71	42.755	64.984	133.492	0.00	0.00	O
ATOM	915	OE2	GLU	A	71	43.020	63.040	134.301	0.00	0.00	O
ATOM	916	HN	GLU	A	71	41.247	66.065	133.794	0.00	0.00	H
ATOM	917	HCA	GLU	A	71	38.574	65.853	134.159	0.00	0.00	H
ATOM	918	HCB	GLU	A	71	40.595	64.364	135.917	0.00	0.00	H
ATOM	919	HCB	GLU	A	71	39.085	63.813	135.224	0.00	0.00	H
ATOM	920	HCG	GLU	A	71	40.600	62.625	133.952	0.00	0.00	H
ATOM	921	HCG	GLU	A	71	40.396	64.009	132.890	0.00	0.00	H
ATOM	922	N	SER	A	72	40.266	66.968	136.796	0.00	0.00	N
ATOM	923	CA	SER	A	72	40.194	67.669	138.041	0.00	0.00	C
ATOM	924	C	SER	A	72	39.471	68.963	137.967	0.00	0.00	C
ATOM	925	O	SER	A	72	39.229	69.527	139.061	0.00	0.00	O
ATOM	926	CB	SER	A	72	41.624	67.861	138.617	0.00	0.00	C
ATOM	927	OG	SER	A	72	42.426	68.729	137.813	0.00	0.00	O
ATOM	928	HN	SER	A	72	41.146	66.788	136.435	0.00	0.00	H
ATOM	929	HCA	SER	A	72	39.642	67.029	138.738	0.00	0.00	H
ATOM	930	HCB	SER	A	72	41.567	68.274	139.628	0.00	0.00	H
ATOM	931	HCB	SER	A	72	42.123	66.892	138.690	0.00	0.00	H
ATOM	932	HOG	SER	A	72	41.926	69.576	137.788	0.00	0.00	H
ATOM	933	N	VAL	A	73	39.069	69.529	136.795	0.00	0.00	N
ATOM	934	CA	VAL	A	73	38.208	70.678	136.708	0.00	0.00	C
ATOM	935	C	VAL	A	73	36.989	70.400	135.888	0.00	0.00	C
ATOM	936	O	VAL	A	73	36.369	71.328	135.312	0.00	0.00	O
ATOM	937	CB	VAL	A	73	39.038	71.959	136.354	0.00	0.00	C
ATOM	938	CG1	VAL	A	73	40.149	72.257	137.399	0.00	0.00	C
ATOM	939	CG2	VAL	A	73	39.669	71.942	134.943	0.00	0.00	C
ATOM	940	HN	VAL	A	73	39.334	69.144	135.952	0.00	0.00	H
ATOM	941	HCA	VAL	A	73	37.766	70.876	137.687	0.00	0.00	H
ATOM	942	HCB	VAL	A	73	38.350	72.807	136.392	0.00	0.00	H
ATOM	943	HCG1	VAL	A	73	40.966	71.541	137.310	0.00	0.00	H
ATOM	944	HCG1	VAL	A	73	40.544	73.262	137.251	0.00	0.00	H
ATOM	945	HCG1	VAL	A	73	39.760	72.199	138.414	0.00	0.00	H
ATOM	946	HCG2	VAL	A	73	40.364	71.110	134.832	0.00	0.00	H
ATOM	947	HCG2	VAL	A	73	38.888	71.866	134.194	0.00	0.00	H
ATOM	948	HCG2	VAL	A	73	40.214	72.871	134.768	0.00	0.00	H
ATOM	949	N	SER	A	74	36.450	69.153	135.854	0.00	0.00	N
ATOM	950	CA	SER	A	74	35.086	68.858	135.500	0.00	0.00	C
ATOM	951	C	SER	A	74	34.123	69.392	136.506	0.00	0.00	C
ATOM	952	O	SER	A	74	34.363	69.282	137.730	0.00	0.00	O
ATOM	953	CB	SER	A	74	34.855	67.325	135.366	0.00	0.00	C
ATOM	954	OG	SER	A	74	33.491	67.041	135.019	0.00	0.00	O
ATOM	955	HN	SER	A	74	36.992	68.413	136.137	0.00	0.00	H
ATOM	956	HCA	SER	A	74	34.876	69.299	134.520	0.00	0.00	H
ATOM	957	HCB	SER	A	74	35.509	66.909	134.596	0.00	0.00	H
ATOM	958	HCB	SER	A	74	35.087	66.829	136.313	0.00	0.00	H

ATOM	959	HOG	SER	A	74	33.028	67.820	135.375	0.00	0.00	H
ATOM	960	N	MET	A	75	32.938	69.890	136.081	0.00	0.00	N
ATOM	961	CA	MET	A	75	31.810	70.261	136.895	0.00	0.00	C
ATOM	962	C	MET	A	75	32.057	71.211	138.030	0.00	0.00	C
ATOM	963	O	MET	A	75	31.364	71.146	139.073	0.00	0.00	O
ATOM	964	CB	MET	A	75	31.000	68.969	137.253	0.00	0.00	C
ATOM	965	CG	MET	A	75	30.165	68.380	136.081	0.00	0.00	C
ATOM	966	SD	MET	A	75	28.840	69.476	135.500	0.00	0.00	S
ATOM	967	CE	MET	A	75	27.655	69.240	136.845	0.00	0.00	C
ATOM	968	HN	MET	A	75	32.816	69.958	135.122	0.00	0.00	H
ATOM	969	HCA	MET	A	75	31.193	70.853	136.222	0.00	0.00	H
ATOM	970	HCB	MET	A	75	31.692	68.202	137.610	0.00	0.00	H
ATOM	971	HCB	MET	A	75	30.319	69.161	138.081	0.00	0.00	H
ATOM	972	HCE	MET	A	75	28.088	69.493	137.809	0.00	0.00	H
ATOM	973	HCE	MET	A	75	26.803	69.898	136.678	0.00	0.00	H
ATOM	974	HCE	MET	A	75	27.313	68.205	136.867	0.00	0.00	H
ATOM	975	HCG	MET	A	75	30.821	68.181	135.232	0.00	0.00	H
ATOM	976	HCG	MET	A	75	29.725	67.428	136.386	0.00	0.00	H
ATOM	977	N	MET	A	76	32.930	72.237	137.891	0.00	0.00	N
ATOM	978	CA	MET	A	76	33.119	73.334	138.815	0.00	0.00	C
ATOM	979	C	MET	A	76	32.270	74.503	138.454	0.00	0.00	C
ATOM	980	O	MET	A	76	31.696	75.187	139.329	0.00	0.00	O
ATOM	981	CB	MET	A	76	34.598	73.813	138.790	0.00	0.00	C
ATOM	982	CG	MET	A	76	35.637	72.756	139.223	0.00	0.00	C
ATOM	983	SD	MET	A	76	37.298	73.452	139.045	0.00	0.00	S
ATOM	984	CE	MET	A	76	37.495	74.222	140.658	0.00	0.00	C
ATOM	985	HN	MET	A	76	33.448	72.249	137.074	0.00	0.00	H
ATOM	986	HCA	MET	A	76	32.882	73.027	139.839	0.00	0.00	H
ATOM	987	HCB	MET	A	76	34.852	74.154	137.782	0.00	0.00	H
ATOM	988	HCB	MET	A	76	34.698	74.668	139.464	0.00	0.00	H
ATOM	989	HCE	MET	A	76	37.445	73.457	141.430	0.00	0.00	H
ATOM	990	HCE	MET	A	76	38.468	74.702	140.705	0.00	0.00	H
ATOM	991	HCE	MET	A	76	36.723	74.973	140.815	0.00	0.00	H
ATOM	992	HCG	MET	A	76	35.458	72.425	140.248	0.00	0.00	H
ATOM	993	HCG	MET	A	76	35.568	71.887	138.567	0.00	0.00	H
ATOM	994	N	LEU	A	77	32.215	74.863	137.158	0.00	0.00	N
ATOM	995	CA	LEU	A	77	31.693	76.062	136.566	0.00	0.00	C
ATOM	996	C	LEU	A	77	30.389	76.547	137.115	0.00	0.00	C
ATOM	997	O	LEU	A	77	30.236	77.756	137.407	0.00	0.00	O
ATOM	998	CB	LEU	A	77	31.641	75.725	135.043	0.00	0.00	C
ATOM	999	CG	LEU	A	77	31.428	76.902	134.054	0.00	0.00	C
ATOM	1000	CD1	LEU	A	77	32.522	77.995	134.134	0.00	0.00	C
ATOM	1001	CD2	LEU	A	77	31.350	76.351	132.612	0.00	0.00	C
ATOM	1002	HN	LEU	A	77	32.639	74.241	136.552	0.00	0.00	H
ATOM	1003	HCA	LEU	A	77	32.446	76.834	136.737	0.00	0.00	H
ATOM	1004	HCB	LEU	A	77	32.574	75.238	134.749	0.00	0.00	H
ATOM	1005	HCB	LEU	A	77	30.842	74.993	134.887	0.00	0.00	H
ATOM	1006	HCD1	LEU	A	77	32.476	78.482	135.103	0.00	0.00	H
ATOM	1007	HCD1	LEU	A	77	33.516	77.567	133.995	0.00	0.00	H
ATOM	1008	HCD1	LEU	A	77	32.362	78.759	133.371	0.00	0.00	H
ATOM	1009	HCD2	LEU	A	77	30.519	75.651	132.536	0.00	0.00	H
ATOM	1010	HCD2	LEU	A	77	31.183	77.162	131.906	0.00	0.00	H
ATOM	1011	HCD2	LEU	A	77	32.270	75.840	132.334	0.00	0.00	H
ATOM	1012	HCG	LEU	A	77	30.467	77.358	134.285	0.00	0.00	H
ATOM	1013	N	GLN	A	78	29.390	75.662	137.310	0.00	0.00	N
ATOM	1014	CA	GLN	A	78	28.075	75.891	137.855	0.00	0.00	C
ATOM	1015	C	GLN	A	78	28.033	76.207	139.292	0.00	0.00	C
ATOM	1016	O	GLN	A	78	26.960	76.592	139.747	0.00	0.00	O
ATOM	1017	CB	GLN	A	78	27.100	74.681	137.553	0.00	0.00	C
ATOM	1018	CG	GLN	A	78	27.564	73.564	136.568	0.00	0.00	C
ATOM	1019	CD	GLN	A	78	28.760	72.836	137.036	0.00	0.00	C
ATOM	1020	NE2	GLN	A	78	28.794	72.137	138.172	0.00	0.00	N
ATOM	1021	OE1	GLN	A	78	29.840	72.955	136.420	0.00	0.00	O
ATOM	1022	HN	GLN	A	78	29.589	74.775	137.045	0.00	0.00	H
ATOM	1023	HNE2	GLN	A	78	27.993	72.018	138.700	0.00	0.00	H
ATOM	1024	HNE2	GLN	A	78	29.628	71.777	138.468	0.00	0.00	H
ATOM	1025	HCA	GLN	A	78	27.684	76.769	137.328	0.00	0.00	H
ATOM	1026	HCB	GLN	A	78	26.818	74.171	138.481	0.00	0.00	H
ATOM	1027	HCB	GLN	A	78	26.169	75.095	137.152	0.00	0.00	H
ATOM	1028	HCG	GLN	A	78	26.758	72.839	136.432	0.00	0.00	H
ATOM	1029	HCG	GLN	A	78	27.762	74.016	135.592	0.00	0.00	H
ATOM	1030	N	LEU	A	79	29.058	76.039	140.113	0.00	0.00	N
ATOM	1031	CA	LEU	A	79	29.033	76.139	141.553	0.00	0.00	C
ATOM	1032	C	LEU	A	79	29.449	77.483	142.045	0.00	0.00	C
ATOM	1033	O	LEU	A	79	30.415	78.090	141.521	0.00	0.00	O
ATOM	1034	CB	LEU	A	79	29.943	75.034	142.174	0.00	0.00	C
ATOM	1035	CG	LEU	A	79	29.658	73.565	141.720	0.00	0.00	C
ATOM	1036	CD1	LEU	A	79	30.694	72.596	142.351	0.00	0.00	C
ATOM	1037	CD2	LEU	A	79	28.218	73.091	142.053	0.00	0.00	C
ATOM	1038	HN	LEU	A	79	29.905	75.783	139.748	0.00	0.00	H

ATOM	1039	HCA	LEU	A	79	28.018	75.956	141.920	0.00	0.00	H	
ATOM	1040	HC	B	LEU	A	79	30.982	75.270	141.926	0.00	0.00	H
ATOM	1041	HC	B	LEU	A	79	29.856	75.082	143.264	0.00	0.00	H
ATOM	1042	HCD1	LEU	A	79	31.709	72.902	142.094	0.00	0.00	H	
ATOM	1043	HCD1	LEU	A	79	30.601	72.583	143.439	0.00	0.00	H	
ATOM	1044	HCD1	LEU	A	79	30.547	71.581	141.975	0.00	0.00	H	
ATOM	1045	HCD2	LEU	A	79	27.482	73.668	141.491	0.00	0.00	H	
ATOM	1046	HCD2	LEU	A	79	28.088	72.041	141.780	0.00	0.00	H	
ATOM	1047	HCD2	LEU	A	79	28.013	73.201	143.119	0.00	0.00	H	
ATOM	1048	HCG	LEU	A	79	29.787	73.505	140.634	0.00	0.00	H	
ATOM	1049	N	GLY	A	80	28.800	78.033	143.098	0.00	0.00	N	
ATOM	1050	CA	GLY	A	80	29.113	79.293	143.706	0.00	0.00	C	
ATOM	1051	C	GLY	A	80	30.440	79.373	144.354	0.00	0.00	C	
ATOM	1052	O	GLY	A	80	31.064	78.339	144.682	0.00	0.00	O	
ATOM	1053	HN	GLY	A	80	28.076	77.520	143.484	0.00	0.00	H	
ATOM	1054	HCA	GLY	A	80	29.041	80.074	142.946	0.00	0.00	H	
ATOM	1055	HCA	GLY	A	80	28.357	79.503	144.462	0.00	0.00	H	
ATOM	1056	N	GLY	A	81	30.983	80.593	144.559	0.00	0.00	N	
ATOM	1057	CA	GLY	A	81	32.303	80.861	145.043	0.00	0.00	C	
ATOM	1058	C	GLY	A	81	33.398	80.219	144.275	0.00	0.00	C	
ATOM	1059	O	GLY	A	81	33.474	80.357	143.026	0.00	0.00	O	
ATOM	1060	HN	GLY	A	81	30.414	81.351	144.369	0.00	0.00	H	
ATOM	1061	HCA	GLY	A	81	32.461	81.936	145.014	0.00	0.00	H	
ATOM	1062	HCA	GLY	A	81	32.342	80.563	146.094	0.00	0.00	H	
ATOM	1063	N	THR	A	82	34.294	79.497	144.985	0.00	0.00	N	
ATOM	1064	CA	THR	A	82	35.391	78.683	144.526	0.00	0.00	C	
ATOM	1065	C	THR	A	82	35.156	77.271	144.969	0.00	0.00	C	
ATOM	1066	O	THR	A	82	34.018	76.884	145.334	0.00	0.00	O	
ATOM	1067	CB	THR	A	82	36.778	79.354	144.878	0.00	0.00	C	
ATOM	1068	CG2	THR	A	82	36.930	80.049	146.259	0.00	0.00	C	
ATOM	1069	OG1	THR	A	82	37.951	78.544	144.683	0.00	0.00	O	
ATOM	1070	HN	THR	A	82	34.142	79.488	145.942	0.00	0.00	H	
ATOM	1071	HCA	THR	A	82	35.374	78.639	143.438	0.00	0.00	H	
ATOM	1072	HC	B	THR	A	82	36.886	80.148	144.144	0.00	0.00	H
ATOM	1073	HCG2	THR	A	82	37.387	79.370	146.977	0.00	0.00	H	
ATOM	1074	HCG2	THR	A	82	37.576	80.921	146.179	0.00	0.00	H	
ATOM	1075	HCG2	THR	A	82	35.979	80.405	146.652	0.00	0.00	H	
ATOM	1076	HOG1	THR	A	82	38.645	79.232	144.726	0.00	0.00	H	
ATOM	1077	N	VAL	A	83	36.176	76.397	144.925	0.00	0.00	N	
ATOM	1078	CA	VAL	A	83	36.239	75.018	145.347	0.00	0.00	C	
ATOM	1079	C	VAL	A	83	37.563	74.782	146.005	0.00	0.00	C	
ATOM	1080	O	VAL	A	83	37.734	73.714	146.641	0.00	0.00	O	
ATOM	1081	CB	VAL	A	83	35.913	74.054	144.141	0.00	0.00	C	
ATOM	1082	CG1	VAL	A	83	36.548	72.633	144.195	0.00	0.00	C	
ATOM	1083	CG2	VAL	A	83	34.380	73.871	143.933	0.00	0.00	C	
ATOM	1084	HN	VAL	A	83	36.972	76.827	144.619	0.00	0.00	H	
ATOM	1085	HCA	VAL	A	83	35.490	74.847	146.125	0.00	0.00	H	
ATOM	1086	HC	B	VAL	A	83	36.308	74.528	143.241	0.00	0.00	H
ATOM	1087	HCG1	VAL	A	83	36.236	72.106	145.100	0.00	0.00	H	
ATOM	1088	HCG1	VAL	A	83	36.248	72.037	143.330	0.00	0.00	H	
ATOM	1089	HCG1	VAL	A	83	37.636	72.697	144.179	0.00	0.00	H	
ATOM	1090	HCG2	VAL	A	83	33.876	74.829	143.838	0.00	0.00	H	
ATOM	1091	HCG2	VAL	A	83	34.181	73.308	143.018	0.00	0.00	H	
ATOM	1092	HCG2	VAL	A	83	33.937	73.336	144.775	0.00	0.00	H	
ATOM	1093	N	ILE	A	84	38.576	75.688	145.966	0.00	0.00	N	
ATOM	1094	CA	ILE	A	84	39.942	75.433	146.367	0.00	0.00	C	
ATOM	1095	C	ILE	A	84	40.271	76.093	147.674	0.00	0.00	C	
ATOM	1096	O	ILE	A	84	41.462	76.185	148.054	0.00	0.00	O	
ATOM	1097	CB	ILE	A	84	40.824	75.745	145.092	0.00	0.00	C	
ATOM	1098	CG1	ILE	A	84	40.463	74.849	143.854	0.00	0.00	C	
ATOM	1099	CG2	ILE	A	84	42.362	75.722	145.321	0.00	0.00	C	
ATOM	1100	CD1	ILE	A	84	40.726	73.329	143.994	0.00	0.00	C	
ATOM	1101	HN	ILE	A	84	38.385	76.556	145.587	0.00	0.00	H	
ATOM	1102	HCA	ILE	A	84	40.096	74.375	146.591	0.00	0.00	H	
ATOM	1103	HC	B	ILE	A	84	40.594	76.767	144.780	0.00	0.00	H
ATOM	1104	HCD1	ILE	A	84	41.779	73.136	144.194	0.00	0.00	H	
ATOM	1105	HCD1	ILE	A	84	40.126	72.896	144.794	0.00	0.00	H	
ATOM	1106	HCD1	ILE	A	84	40.458	72.824	143.063	0.00	0.00	H	
ATOM	1107	HCG1	ILE	A	84	39.411	74.990	143.592	0.00	0.00	H	
ATOM	1108	HCG1	ILE	A	84	41.038	75.200	142.994	0.00	0.00	H	
ATOM	1109	HCG2	ILE	A	84	42.663	76.573	145.928	0.00	0.00	H	
ATOM	1110	HCG2	ILE	A	84	42.666	74.802	145.821	0.00	0.00	H	
ATOM	1111	HCG2	ILE	A	84	42.906	75.802	144.378	0.00	0.00	H	
ATOM	1112	N	GLY	A	85	39.326	76.461	148.579	0.00	0.00	N	
ATOM	1113	CA	GLY	A	85	39.608	76.980	149.891	0.00	0.00	C	
ATOM	1114	C	GLY	A	85	40.214	78.330	149.940	0.00	0.00	C	
ATOM	1115	O	GLY	A	85	41.273	78.564	149.308	0.00	0.00	O	
ATOM	1116	HN	GLY	A	85	38.400	76.294	148.390	0.00	0.00	H	
ATOM	1117	HCA	GLY	A	85	38.679	76.968	150.462	0.00	0.00	H	
ATOM	1118	HCA	GLY	A	85	40.290	76.295	150.396	0.00	0.00	H	

ATOM	1119	N	SER	A	86	39.688	79.287	150.736	0.00	0.00	N
ATOM	1120	CA	SER	A	86	40.234	80.598	150.951	0.00	0.00	C
ATOM	1121	C	SER	A	86	40.568	80.788	152.385	0.00	0.00	C
ATOM	1122	O	SER	A	86	39.765	80.417	153.273	0.00	0.00	O
ATOM	1123	CB	SER	A	86	39.251	81.687	150.470	0.00	0.00	C
ATOM	1124	OG	SER	A	86	39.831	82.965	150.725	0.00	0.00	O
ATOM	1125	HN	SER	A	86	38.911	79.056	151.246	0.00	0.00	H
ATOM	1126	HCA	SER	A	86	41.150	80.745	150.370	0.00	0.00	H
ATOM	1127	HCB	SER	A	86	39.077	81.582	149.396	0.00	0.00	H
ATOM	1128	HCB	SER	A	86	38.291	81.610	150.986	0.00	0.00	H
ATOM	1129	HOG	SER	A	86	39.224	83.614	150.345	0.00	0.00	H
ATOM	1130	N	ALA	A	87	41.730	81.388	152.724	0.00	0.00	N
ATOM	1131	CA	ALA	A	87	42.148	81.731	154.050	0.00	0.00	C
ATOM	1132	C	ALA	A	87	42.554	83.155	154.129	0.00	0.00	C
ATOM	1133	O	ALA	A	87	43.353	83.599	153.267	0.00	0.00	O
ATOM	1134	CB	ALA	A	87	43.307	80.797	154.456	0.00	0.00	C
ATOM	1135	HN	ALA	A	87	42.327	81.623	151.999	0.00	0.00	H
ATOM	1136	HCA	ALA	A	87	41.334	81.571	154.758	0.00	0.00	H
ATOM	1137	HCB	ALA	A	87	44.160	80.936	153.790	0.00	0.00	H
ATOM	1138	HCB	ALA	A	87	43.618	81.009	155.481	0.00	0.00	H
ATOM	1139	HCB	ALA	A	87	42.984	79.755	154.405	0.00	0.00	H
ATOM	1140	N	ARG	A	88	42.121	83.942	155.149	0.00	0.00	N
ATOM	1141	CA	ARG	A	88	42.530	85.312	155.348	0.00	0.00	C
ATOM	1142	C	ARG	A	88	44.003	85.386	155.610	0.00	0.00	C
ATOM	1143	O	ARG	A	88	44.720	86.124	154.895	0.00	0.00	O
ATOM	1144	CB	ARG	A	88	41.688	85.980	156.478	0.00	0.00	C
ATOM	1145	CG	ARG	A	88	40.161	86.094	156.165	0.00	0.00	C
ATOM	1146	CD	ARG	A	88	39.344	86.742	157.320	0.00	0.00	C
ATOM	1147	NE	ARG	A	88	37.959	86.370	157.326	0.00	0.00	N
ATOM	1148	CZ	ARG	A	88	36.917	87.023	156.811	0.00	0.00	C
ATOM	1149	NH1	ARG	A	88	36.968	88.142	156.107	0.00	0.00	N
ATOM	1150	NH2	ARG	A	88	35.755	86.458	157.103	0.00	0.00	N
ATOM	1151	HN	ARG	A	88	41.534	83.539	155.798	0.00	0.00	H
ATOM	1152	HNE	ARG	A	88	37.685	85.587	157.815	0.00	0.00	H
ATOM	1153	HNH1	ARG	A	88	37.828	88.537	155.915	0.00	0.00	H
ATOM	1154	HNH1	ARG	A	88	36.163	88.567	155.794	0.00	0.00	H
ATOM	1155	HNH2	ARG	A	88	35.847	85.662	157.637	0.00	0.00	H
ATOM	1156	HNH2	ARG	A	88	34.912	86.840	156.916	0.00	0.00	H
ATOM	1157	HCA	ARG	A	88	42.322	85.868	154.426	0.00	0.00	H
ATOM	1158	HCB	ARG	A	88	41.827	85.415	157.403	0.00	0.00	H
ATOM	1159	HCB	ARG	A	88	42.074	86.990	156.649	0.00	0.00	H
ATOM	1160	HCD	ARG	A	88	39.749	86.415	158.281	0.00	0.00	H
ATOM	1161	HCD	ARG	A	88	39.462	87.829	157.282	0.00	0.00	H
ATOM	1162	HCG	ARG	A	88	40.021	86.696	155.263	0.00	0.00	H
ATOM	1163	HCG	ARG	A	88	39.765	85.102	155.951	0.00	0.00	H
ATOM	1164	N	CYS	A	89	44.570	84.606	156.565	0.00	0.00	N
ATOM	1165	CA	CYS	A	89	45.979	84.362	156.768	0.00	0.00	C
ATOM	1166	C	CYS	A	89	46.802	85.588	156.959	0.00	0.00	C
ATOM	1167	O	CYS	A	89	47.717	85.906	156.156	0.00	0.00	O
ATOM	1168	CB	CYS	A	89	46.498	83.399	155.666	0.00	0.00	C
ATOM	1169	SG	CYS	A	89	48.218	82.884	155.889	0.00	0.00	S
ATOM	1170	HN	CYS	A	89	43.956	84.096	157.113	0.00	0.00	H
ATOM	1171	HCA	CYS	A	89	46.055	83.804	157.706	0.00	0.00	H
ATOM	1172	HCB	CYS	A	89	45.878	82.504	155.658	0.00	0.00	H
ATOM	1173	HCB	CYS	A	89	46.409	83.874	154.691	0.00	0.00	H
ATOM	1174	HSG	CYS	A	89	48.197	82.976	157.239	0.00	0.00	H
ATOM	1175	N	LYS	A	90	46.595	86.326	158.075	0.00	0.00	N
ATOM	1176	CA	LYS	A	90	47.329	87.507	158.432	0.00	0.00	C
ATOM	1177	C	LYS	A	90	48.804	87.294	158.492	0.00	0.00	C
ATOM	1178	O	LYS	A	90	49.564	88.275	158.341	0.00	0.00	O
ATOM	1179	CB	LYS	A	90	46.756	88.129	159.752	0.00	0.00	C
ATOM	1180	CG	LYS	A	90	46.466	89.653	159.648	0.00	0.00	C
ATOM	1181	CD	LYS	A	90	45.156	89.973	158.864	0.00	0.00	C
ATOM	1182	CE	LYS	A	90	45.074	91.431	158.349	0.00	0.00	C
ATOM	1183	NZ	LYS	A	90	45.985	91.616	157.214	0.00	0.00	N
ATOM	1184	HN	LYS	A	90	45.891	86.030	158.671	0.00	0.00	H
ATOM	1185	HNZ	LYS	A	90	46.920	91.311	157.484	0.00	0.00	H
ATOM	1186	HNZ	LYS	A	90	45.662	91.041	156.434	0.00	0.00	H
ATOM	1187	HNZ	LYS	A	90	46.028	92.579	156.923	0.00	0.00	H
ATOM	1188	HCA	LYS	A	90	47.161	88.202	157.603	0.00	0.00	H
ATOM	1189	HCB	LYS	A	90	45.829	87.629	160.048	0.00	0.00	H
ATOM	1190	HCB	LYS	A	90	47.460	87.967	160.574	0.00	0.00	H
ATOM	1191	HCD	LYS	A	90	45.041	89.299	158.011	0.00	0.00	H
ATOM	1192	HCD	LYS	A	90	44.305	89.791	159.527	0.00	0.00	H
ATOM	1193	HCE	LYS	A	90	44.056	91.645	158.014	0.00	0.00	H
ATOM	1194	HCE	LYS	A	90	45.330	92.131	159.147	0.00	0.00	H
ATOM	1195	HCG	LYS	A	90	46.367	90.063	160.658	0.00	0.00	H
ATOM	1196	HCG	LYS	A	90	47.329	90.142	159.189	0.00	0.00	H
ATOM	1197	N	ASP	A	91	49.344	86.059	158.604	0.00	0.00	N
ATOM	1198	CA	ASP	A	91	50.718	85.677	158.475	0.00	0.00	C



ATOM	1199	C	ASP	A	91	51.342	86.247	157.248	0.00	0.00	C
ATOM	1200	O	ASP	A	91	52.482	86.771	157.303	0.00	0.00	O
ATOM	1201	CB	ASP	A	91	50.819	84.114	158.449	0.00	0.00	C
ATOM	1202	CG	ASP	A	91	49.908	83.386	159.359	0.00	0.00	C
ATOM	1203	OD1	ASP	A	91	50.351	82.761	160.345	0.00	0.00	O
ATOM	1204	OD2	ASP	A	91	48.670	83.357	159.150	0.00	0.00	O
ATOM	1205	HN	ASP	A	91	48.774	85.307	158.776	0.00	0.00	H
ATOM	1206	HCA	ASP	A	91	51.252	86.045	159.357	0.00	0.00	H
ATOM	1207	HCB	ASP	A	91	50.615	83.738	157.445	0.00	0.00	H
ATOM	1208	HCB	ASP	A	91	51.849	83.835	158.685	0.00	0.00	H
ATOM	1209	N	PHE	A	92	50.649	86.267	156.082	0.00	0.00	N
ATOM	1210	CA	PHE	A	92	51.172	86.750	154.834	0.00	0.00	C
ATOM	1211	C	PHE	A	92	51.349	88.230	154.837	0.00	0.00	C
ATOM	1212	O	PHE	A	92	52.071	88.776	153.965	0.00	0.00	O
ATOM	1213	CB	PHE	A	92	50.236	86.252	153.698	0.00	0.00	C
ATOM	1214	CG	PHE	A	92	50.794	86.450	152.333	0.00	0.00	C
ATOM	1215	CD1	PHE	A	92	51.877	85.659	151.880	0.00	0.00	C
ATOM	1216	CD2	PHE	A	92	50.255	87.426	151.462	0.00	0.00	C
ATOM	1217	CE1	PHE	A	92	52.391	85.823	150.581	0.00	0.00	C
ATOM	1218	CE2	PHE	A	92	50.774	87.595	150.165	0.00	0.00	C
ATOM	1219	CZ	PHE	A	92	51.827	86.778	149.719	0.00	0.00	C
ATOM	1220	HN	PHE	A	92	49.717	86.025	156.111	0.00	0.00	H
ATOM	1221	HCA	PHE	A	92	52.160	86.299	154.693	0.00	0.00	H
ATOM	1222	HCB	PHE	A	92	50.049	85.183	153.831	0.00	0.00	H
ATOM	1223	HCB	PHE	A	92	49.267	86.751	153.796	0.00	0.00	H
ATOM	1224	HCD1	PHE	A	92	52.293	84.954	152.491	0.00	0.00	H
ATOM	1225	HCD2	PHE	A	92	49.478	88.019	151.764	0.00	0.00	H
ATOM	1226	HCE1	PHE	A	92	53.169	85.245	150.258	0.00	0.00	H
ATOM	1227	HCE2	PHE	A	92	50.376	88.299	149.541	0.00	0.00	H
ATOM	1228	HCZ	PHE	A	92	52.177	86.874	148.765	0.00	0.00	H
ATOM	1229	N	ARG	A	93	50.833	89.004	155.825	0.00	0.00	N
ATOM	1230	CA	ARG	A	93	51.096	90.400	155.971	0.00	0.00	C
ATOM	1231	C	ARG	A	93	52.493	90.596	156.455	0.00	0.00	C
ATOM	1232	O	ARG	A	93	52.951	91.756	156.359	0.00	0.00	O
ATOM	1233	CB	ARG	A	93	50.021	91.002	156.930	0.00	0.00	C
ATOM	1234	CG	ARG	A	93	49.830	92.545	156.896	0.00	0.00	C
ATOM	1235	CD	ARG	A	93	49.163	93.093	155.609	0.00	0.00	C
ATOM	1236	NE	ARG	A	93	48.845	94.472	155.808	0.00	0.00	N
ATOM	1237	CZ	ARG	A	93	47.632	95.023	155.930	0.00	0.00	C
ATOM	1238	NH1	ARG	A	93	46.483	94.365	155.852	0.00	0.00	N
ATOM	1239	NH2	ARG	A	93	47.567	96.324	156.149	0.00	0.0	

ATOM	1279	HN	ARG	A	95	56.998	90.289	157.318	0.00	0.00	H
ATOM	1280	HNE	ARG	A	95	62.738	89.561	154.635	0.00	0.00	H
ATOM	1281	HNH1	ARG	A	95	61.141	92.312	153.006	0.00	0.00	H
ATOM	1282	HNH1	ARG	A	95	62.609	92.563	152.242	0.00	0.00	H
ATOM	1283	HNH2	ARG	A	95	64.514	90.320	153.502	0.00	0.00	H
ATOM	1284	HNH2	ARG	A	95	64.233	91.665	152.552	0.00	0.00	H
ATOM	1285	HCA	ARG	A	95	58.091	88.909	155.314	0.00	0.00	H
ATOM	1286	HCB	ARG	A	95	59.080	90.686	156.948	0.00	0.00	H
ATOM	1287	HCB	ARG	A	95	59.483	89.345	157.995	0.00	0.00	H
ATOM	1288	HCD	ARG	A	95	60.096	89.987	154.147	0.00	0.00	H
ATOM	1289	HCD	ARG	A	95	60.561	91.353	155.175	0.00	0.00	H
ATOM	1290	HCG	ARG	A	95	61.482	89.695	156.856	0.00	0.00	H
ATOM	1291	HCG	ARG	A	95	60.802	88.382	155.899	0.00	0.00	H
ATOM	1292	N	GLU	A	96	57.945	86.965	158.033	0.00	0.00	N
ATOM	1293	CA	GLU	A	96	57.958	85.617	158.540	0.00	0.00	C
ATOM	1294	C	GLU	A	96	56.986	84.666	157.920	0.00	0.00	C
ATOM	1295	O	GLU	A	96	57.119	83.442	158.165	0.00	0.00	O
ATOM	1296	CB	GLU	A	96	57.819	85.661	160.092	0.00	0.00	C
ATOM	1297	CG	GLU	A	96	56.460	86.214	160.613	0.00	0.00	C
ATOM	1298	CD	GLU	A	96	56.356	86.206	162.081	0.00	0.00	C
ATOM	1299	OE1	GLU	A	96	57.134	86.882	162.786	0.00	0.00	O
ATOM	1300	OE2	GLU	A	96	55.481	85.535	162.668	0.00	0.00	O
ATOM	1301	HN	GLU	A	96	57.730	87.669	158.662	0.00	0.00	H
ATOM	1302	HCA	GLU	A	96	58.952	85.217	158.325	0.00	0.00	H
ATOM	1303	HCB	GLU	A	96	57.963	84.650	160.488	0.00	0.00	H
ATOM	1304	HCB	GLU	A	96	58.630	86.277	160.494	0.00	0.00	H
ATOM	1305	HCG	GLU	A	96	56.334	87.244	160.286	0.00	0.00	H
ATOM	1306	HCG	GLU	A	96	55.639	85.625	160.196	0.00	0.00	H
ATOM	1307	N	GLY	A	97	56.000	85.080	157.088	0.00	0.00	N
ATOM	1308	CA	GLY	A	97	55.130	84.243	156.313	0.00	0.00	C
ATOM	1309	C	GLY	A	97	55.517	84.329	154.891	0.00	0.00	C
ATOM	1310	O	GLY	A	97	55.673	83.288	154.205	0.00	0.00	O
ATOM	1311	HN	GLY	A	97	55.888	86.021	156.938	0.00	0.00	H
ATOM	1312	HCA	GLY	A	97	55.141	83.201	156.642	0.00	0.00	H
ATOM	1313	HCA	GLY	A	97	54.110	84.614	156.418	0.00	0.00	H
ATOM	1314	N	ARG	A	98	55.757	85.549	154.356	0.00	0.00	N
ATOM	1315	CA	ARG	A	98	56.181	85.789	153.002	0.00	0.00	C
ATOM	1316	C	ARG	A	98	57.409	85.031	152.629	0.00	0.00	C
ATOM	1317	O	ARG	A	98	57.445	84.430	151.529	0.00	0.00	O
ATOM	1318	CB	ARG	A	98	56.418	87.302	152.785	0.00	0.00	C
ATOM	1319	CG	ARG	A	98	55.135	88.160	152.95			

ATOM	1359	C	ARG	A	100	57.141	80.443	152.375	0.00	0.00	C
ATOM	1360	O	ARG	A	100	57.408	79.452	151.657	0.00	0.00	O
ATOM	1361	CB	ARG	A	100	57.210	80.231	154.903	0.00	0.00	C
ATOM	1362	CG	ARG	A	100	57.577	78.766	155.295	0.00	0.00	C
ATOM	1363	CD	ARG	A	100	56.682	78.110	156.376	0.00	0.00	C
ATOM	1364	NE	ARG	A	100	56.475	78.971	157.496	0.00	0.00	N
ATOM	1365	CZ	ARG	A	100	55.393	78.994	158.279	0.00	0.00	C
ATOM	1366	NH1	ARG	A	100	54.351	78.184	158.146	0.00	0.00	N
ATOM	1367	NH2	ARG	A	100	55.352	79.885	159.256	0.00	0.00	N
ATOM	1368	HN	ARG	A	100	57.551	82.657	154.004	0.00	0.00	H
ATOM	1369	HNE	ARG	A	100	57.184	79.587	157.720	0.00	0.00	H
ATOM	1370	HNH1	ARG	A	100	54.339	77.528	157.439	0.00	0.00	H
ATOM	1371	HNH1	ARG	A	100	53.599	78.255	158.746	0.00	0.00	H
ATOM	1372	HNH2	ARG	A	100	56.080	80.507	159.369	0.00	0.00	H
ATOM	1373	HNH2	ARG	A	100	54.589	79.914	159.845	0.00	0.00	H
ATOM	1374	HCA	ARG	A	100	58.878	80.146	153.535	0.00	0.00	H
ATOM	1375	HCB	ARG	A	100	57.498	80.884	155.733	0.00	0.00	H
ATOM	1376	HCB	ARG	A	100	56.127	80.322	154.782	0.00	0.00	H
ATOM	1377	HCD	ARG	A	100	55.736	77.822	155.918	0.00	0.00	H
ATOM	1378	HCD	ARG	A	100	57.166	77.193	156.724	0.00	0.00	H
ATOM	1379	HCG	ARG	A	100	57.529	78.133	154.404	0.00	0.00	H
ATOM	1380	HCG	ARG	A	100	58.612	78.752	155.650	0.00	0.00	H
ATOM	1381	N	ALA	A	101	56.208	81.347	151.987	0.00	0.00	N
ATOM	1382	CA	ALA	A	101	55.599	81.389	150.684	0.00	0.00	C
ATOM	1383	C	ALA	A	101	56.607	81.404	149.577	0.00	0.00	C
ATOM	1384	O	ALA	A	101	56.556	80.538	148.668	0.00	0.00	O
ATOM	1385	CB	ALA	A	101	54.665	82.621	150.628	0.00	0.00	C
ATOM	1386	HN	ALA	A	101	55.990	82.025	152.637	0.00	0.00	H
ATOM	1387	HCA	ALA	A	101	54.980	80.496	150.570	0.00	0.00	H
ATOM	1388	HCB	ALA	A	101	53.802	82.473	151.280	0.00	0.00	H
ATOM	1389	HCB	ALA	A	101	55.183	83.522	150.940	0.00	0.00	H
ATOM	1390	HCB	ALA	A	101	54.315	82.782	149.610	0.00	0.00	H
ATOM	1391	N	ALA	A	102	57.611	82.315	149.579	0.00	0.00	N
ATOM	1392	CA	ALA	A	102	58.716	82.336	148.661	0.00	0.00	C
ATOM	1393	C	ALA	A	102	59.507	81.071	148.675	0.00	0.00	C
ATOM	1394	O	ALA	A	102	59.683	80.475	147.585	0.00	0.00	O
ATOM	1395	CB	ALA	A	102	59.595	83.574	148.951	0.00	0.00	C
ATOM	1396	HN	ALA	A	102	57.575	82.995	150.251	0.00	0.00	H
ATOM	1397	HCA	ALA	A	102	58.302	82.473	147.657	0.00	0.00	H
ATOM	1398	HCB	ALA	A	102	59.006	84.483	148.824	0.00	0.00	H
ATOM	1399	HCB	ALA	A	102	59.979					

ATOM	1439	CD2	LEU	A	105	54.573	80.033	144.262	0.00	0.00	
ATOM	1440	HN	LEU	A	105	57.118	79.141	147.400	0.00	0.00	
ATOM	1441	HCA	LEU	A	105	56.602	78.081	144.923	0.00	0.00	
ATOM	1442	HC	LEU	A	105	57.680	80.815	145.714	0.00	0.00	
ATOM	1443	HC	LEU	A	105	57.274	80.438	144.049	0.00	0.00	
ATOM	1444	HCD1	LEU	A	105	56.027	82.569	146.152	0.00	0.00	
ATOM	1445	HCD1	LEU	A	105	55.720	82.588	144.406	0.00	0.00	
ATOM	1446	HCD1	LEU	A	105	54.373	82.453	145.551	0.00	0.00	
ATOM	1447	HCD2	LEU	A	105	54.860	80.377	143.268	0.00	0.00	
ATOM	1448	HCD2	LEU	A	105	54.572	78.944	144.278	0.00	0.00	
ATOM	1449	HCD2	LEU	A	105	53.549	80.358	144.441	0.00	0.00	
ATOM	1450	HCG	LEU	A	105	55.230	80.232	146.312	0.00	0.00	
ATOM	1451	N	VAL	A	106	59.850	78.753	145.258	0.00	0.00	
ATOM	1452	CA	VAL	A	106	61.161	78.404	144.764	0.00	0.00	
ATOM	1453	C	VAL	A	106	61.369	76.925	144.798	0.00	0.00	
ATOM	1454	O	VAL	A	106	61.673	76.333	143.737	0.00	0.00	
ATOM	1455	CB	VAL	A	106	62.271	79.194	145.544	0.00	0.00	
ATOM	1456	CG1	VAL	A	106	63.718	78.748	145.177	0.00	0.00	
ATOM	1457	CG2	VAL	A	106	62.158	80.729	145.311	0.00	0.00	
ATOM	1458	HN	VAL	A	106	59.800	79.310	146.037	0.00	0.00	
ATOM	1459	HCA	VAL	A	106	61.214	78.726	143.718	0.00	0.00	
ATOM	1460	HC	VAL	A	106	62.134	79.009	146.615	0.00	0.00	
ATOM	1461	HCG1	VAL	A	106	63.883	77.707	145.457	0.00	0.00	
ATOM	1462	HCG1	VAL	A	106	63.892	78.852	144.104	0.00	0.00	
ATOM	1463	HCG1	VAL	A	106	64.457	79.350	145.711	0.00	0.00	
ATOM	1464	HCG2	VAL	A	106	61.162	81.088	145.560	0.00	0.00	
ATOM	1465	HCG2	VAL	A	106	62.871	81.264	145.942	0.00	0.00	
ATOM	1466	HCG2	VAL	A	106	62.360	80.979	144.267	0.00	0.00	
ATOM	1467	N	LYS	A	107	61.199	76.205	145.931	0.00	0.00	
ATOM	1468	CA	LYS	A	107	61.340	74.780	146.082	0.00	0.00	
ATOM	1469	C	LYS	A	107	60.546	74.028	145.072	0.00	0.00	
ATOM	1470	O	LYS	A	107	61.104	73.139	144.384	0.00	0.00	
ATOM	1471	CB	LYS	A	107	60.928	74.424	147.543	0.00	0.00	
ATOM	1472	CG	LYS	A	107	61.035	72.922	147.925	0.00	0.00	
ATOM	1473	CD	LYS	A	107	60.604	72.674	149.397	0.00	0.00	
ATOM	1474	CE	LYS	A	107	60.685	71.185	149.804	0.00	0.00	
ATOM	1475	NZ	LYS	A	107	60.219	71.003	151.183	0.00	0.00	
ATOM	1476	HN	LYS	A	107	60.961	76.686	146.720	0.00	0.00	
ATOM	1477	HNZ	LYS	A	107	59.246	71.298	151.258	0.00	0.00	
ATOM	1478	HNZ	LYS	A	107	60.291	70.020	151.443	0.00	0.00	
ATOM	1479	HNZ	LYS	A	107	60.788	71.561	151.818	0.00	0.00	
ATOM	1480	HCA	LYS	A	107	62.400	74.532	145.960	0.00	0.00	
ATOM	1481	HC	LYS	A	107	61.567	74.993	148.226	0.00	0.00	
ATOM	1482	HC	LYS	A	107	59.898	74.749	147.709	0.00	0.00	
ATOM	1483	HCD	LYS	A	107	61.244	73.260	150.064	0.00	0.00	
ATOM	1484	HCD	LYS	A	107	59.574	73.018	149.530	0.00	0.00	
ATOM	1485	HCE	LYS	A	107	60.060	70.580	149.144	0.00	0.00	
ATOM	1486	HCE	LYS	A	107	61.717	70.832	149.731	0.00	0.00	
ATOM	1487	HCG	LYS	A	107	60.391	72.333	147.266	0.00	0.00	
ATOM	1488	HCG	LYS	A	107	62.066	72.587	147.781	0.00	0.00	
ATOM	1489	N	ARG	A	108	59.241	74.325	144.874	0.00	0.00	
ATOM	1490	CA	ARG	A	108	58.385	73.720	143.893	0.00	0.00	
ATOM	1491	C	ARG	A	108	58.603	74.239	142.502	0.00	0.00	
ATOM	1492	O	ARG	A	108	57.860	73.792	141.595	0.00	0.00	
ATOM	1493	CB	ARG	A	108	56.910	73.856	144.393	0.00	0.00	
ATOM	1494	CG	ARG	A	108	56.613	73.247	145.802	0.00	0.00	
ATOM	1495	CD	ARG	A	108	56.567	71.697	145.888	0.00	0.00	
ATOM	1496	NE	ARG	A	108	55.351	71.196	145.325	0.00	0.00	
ATOM	1497	CZ	ARG	A	108	54.241	70.847	145.987	0.00	0.00	
ATOM	1498	NH1	ARG	A	108	54.120	70.871	147.310	0.00	0.00	
ATOM	1499	NH2	ARG	A	108	53.192	70.508	145.258	0.00	0.00	
ATOM	1500	HN	ARG	A	108	58.853	75.000	145.434	0.00	0.00	
ATOM	1501	HNE	ARG	A	108	55.309	71.146	144.361	0.00	0.00	
ATOM	1502	HNH1	ARG	A	108	54.885	71.126	147.833	0.00	0.00	
ATOM	1503	HNH1	ARG	A	108	53.301	70.656	147.763	0.00	0.00	
ATOM	1504	HNH2	ARG	A	108	53.274	70.479	144.297	0.00	0.00	
ATOM	1505	HNH2	ARG	A	108	52.348	70.401	145.681	0.00	0.00	
ATOM	1506	HCA	ARG	A	108	58.607	72.650	143.841	0.00	0.00	
ATOM	1507	HC	ARG	A	108	56.662	74.921	144.429	0.00	0.00	
ATOM	1508	HC	ARG	A	108	56.232	73.396	143.668	0.00	0.00	
ATOM	1509	HCD	ARG	A	108	57.409	71.258	145.350	0.00	0.00	
ATOM	1510	HCD	ARG	A	108	56.679	71.396	146.933	0.00	0.00	
ATOM	1511	HCG	ARG	A	108	57.360	73.604	146.514	0.00	0.00	
ATOM	1512	HCG	ARG	A	108	55.651	73.637	146.149	0.00	0.00	
ATOM	1513	N	GLY	A	109	59.606	75.091	142.154	0.00	0.00	
ATOM	1514	CA	GLY	A	109	59.955	75.478	140.811	0.00	0.00	
ATOM	1515	C	GLY	A	109	59.122	76.513	140.161	0.00	0.00	
ATOM	1516	O	GLY	A	109	59.258	76.684	138.925	0.00	0.00	
ATOM	1517	HN	GLY	A	109	60.187	75.448	142.828	0.00	0.00	
ATOM	1518	HCA	GLY	A	109	60.980	75.851	140.829	0.00	0.00	

ATOM	1519	HCA	GLY	A	109	59.952	74.586	140.178	0.00	0.00		H
ATOM	1520	N	ILE	A	110	58.269	77.299	140.854	0.00	0.00		N
ATOM	1521	CA	ILE	A	110	57.244	78.131	140.273	0.00	0.00		C
ATOM	1522	C	ILE	A	110	57.771	79.471	139.889	0.00	0.00		C
ATOM	1523	O	ILE	A	110	58.636	80.027	140.606	0.00	0.00		O
ATOM	1524	CB	ILE	A	110	56.025	78.251	141.251	0.00	0.00		C
ATOM	1525	CG1	ILE	A	110	55.541	76.893	141.863	0.00	0.00		C
ATOM	1526	CG2	ILE	A	110	54.834	79.022	140.608	0.00	0.00		C
ATOM	1527	CD1	ILE	A	110	55.118	75.801	140.854	0.00	0.00		C
ATOM	1528	HN	ILE	A	110	58.365	77.323	141.807	0.00	0.00		H
ATOM	1529	HCA	ILE	A	110	56.876	77.646	139.366	0.00	0.00		H
ATOM	1530	HCB	ILE	A	110	56.366	78.849	142.102	0.00	0.00		H
ATOM	1531	HCD1	ILE	A	110	54.319	76.158	140.203	0.00	0.00		H
ATOM	1532	HCD1	ILE	A	110	55.969	75.492	140.248	0.00	0.00		H
ATOM	1533	HCD1	ILE	A	110	54.757	74.926	141.397	0.00	0.00		H
ATOM	1534	HCG1	ILE	A	110	56.338	76.481	142.485	0.00	0.00		H
ATOM	1535	HCG1	ILE	A	110	54.696	77.079	142.531	0.00	0.00		H
ATOM	1536	HCG2	ILE	A	110	55.102	80.061	140.411	0.00	0.00		H
ATOM	1537	HCG2	ILE	A	110	54.523	78.557	139.672	0.00	0.00		H
ATOM	1538	HCG2	ILE	A	110	53.982	79.040	141.282	0.00	0.00		H
ATOM	1539	N	THR	A	111	57.288	80.098	138.785	0.00	0.00		N
ATOM	1540	CA	THR	A	111	57.627	81.439	138.353	0.00	0.00		C
ATOM	1541	C	THR	A	111	56.421	82.270	138.053	0.00	0.00		C
ATOM	1542	O	THR	A	111	56.555	83.513	137.927	0.00	0.00		O
ATOM	1543	CB	THR	A	111	58.688	81.372	137.204	0.00	0.00		C
ATOM	1544	CG2	THR	A	111	58.374	80.400	136.048	0.00	0.00		C
ATOM	1545	OG1	THR	A	111	58.932	82.638	136.594	0.00	0.00		O
ATOM	1546	HN	THR	A	111	56.651	79.604	138.247	0.00	0.00		H
ATOM	1547	HCA	THR	A	111	58.111	81.971	139.180	0.00	0.00		H
ATOM	1548	HCB	THR	A	111	59.630	81.042	137.649	0.00	0.00		H
ATOM	1549	HCG2	THR	A	111	57.515	80.760	135.495	0.00	0.00		H
ATOM	1550	HCG2	THR	A	111	59.225	80.350	135.367	0.00	0.00		H
ATOM	1551	HCG2	THR	A	111	58.173	79.393	136.415	0.00	0.00		H
ATOM	1552	HOG1	THR	A	111	59.305	83.198	137.290	0.00	0.00		H
ATOM	1553	N	ASN	A	112	55.181	81.727	137.944	0.00	0.00		N
ATOM	1554	CA	ASN	A	112	53.964	82.448	137.658	0.00	0.00		C
ATOM	1555	C	ASN	A	112	52.920	82.256	138.714	0.00	0.00		C
ATOM	1556	O	ASN	A	112	52.588	81.096	139.048	0.00	0.00		O
ATOM	1557	CB	ASN	A	112	53.455	81.971	136.275	0.00	0.00		C
ATOM	1558	CG	ASN	A	112	54.469	81.964	135.203	0.00	0.00		C
ATOM	1559	ND2	ASN	A	112	55.072	80.809	134.896	0.00	0.00		N
ATOM	1560	OD1	ASN	A	112	54.812	83.001	134.587	0.00	0.00		O
ATOM	1561	HN	ASN	A	112	55.109	80.763	137.992	0.00	0.00		H
ATOM	1562	HND2	ASN	A	112	54.941	80.034	135.449	0.00	0.00		H
ATOM	1563	HND2	ASN	A	112	55.679	80.785	134.146	0.00	0.00		H
ATOM	1564	HCA	ASN	A	112	54.157	83.517	137.570	0.00	0.00		H
ATOM	1565	HCB	ASN	A	112	53.070	80.964	136.385	0.00	0.00		H
ATOM	1566	HCB	ASN	A	112	52.621	82.584	135.956	0.00	0.00		H
ATOM	1567	N	LEU	A	113	52.312	83.311	139.307	0.00	0.00		N
ATOM	1568	CA	LEU	A	113	51.280	83.263	140.316	0.00	0.00		C
ATOM	1569	C	LEU	A	113	50.017	83.933	139.875	0.00	0.00		C
ATOM	1570	O	LEU	A	113	50.014	85.155	139.589	0.00	0.00		O
ATOM	1571	CB	LEU	A	113	51.878	83.889	141.613	0.00	0.00		C
ATOM	1572	CG	LEU	A	113	50.985	83.818	142.894	0.00	0.00		C
ATOM	1573	CD1	LEU	A	113	50.770	82.371	143.409	0.00	0.00		C
ATOM	1574	CD2	LEU	A	113	51.585	84.699	144.025	0.00	0.00		C
ATOM	1575	HN	LEU	A	113	52.647	84.168	139.054	0.00	0.00		H
ATOM	1576	HCA	LEU	A	113	51.040	82.224	140.546	0.00	0.00		H
ATOM	1577	HCB	LEU	A	113	52.831	83.398	141.834	0.00	0.00		H
ATOM	1578	HCB	LEU	A	113	52.101	84.937	141.400	0.00	0.00		H
ATOM	1579	HCD1	LEU	A	113	51.726	81.871	143.565	0.00	0.00		H
ATOM	1580	HCD1	LEU	A	113	50.225	82.377	144.353	0.00	0.00		H
ATOM	1581	HCD1	LEU	A	113	50.178	81.794	142.699	0.00	0.00		H
ATOM	1582	HCD2	LEU	A	113	51.675	85.736	143.695	0.00	0.00		H
ATOM	1583	HCD2	LEU	A	113	50.940	84.685	144.906	0.00	0.00		H
ATOM	1584	HCD2	LEU	A	113	52.575	84.336	144.312	0.00	0.00		H
ATOM	1585	HCG	LEU	A	113	50.002	84.224	142.649	0.00	0.00		H
ATOM	1586	N	CYS	A	114	48.848	83.247	139.841	0.00	0.00		N
ATOM	1587	CA	CYS	A	114	47.546	83.817	139.594	0.00	0.00		C
ATOM	1588	C	CYS	A	114	46.852	83.988	140.899	0.00	0.00		C
ATOM	1589	O	CYS	A	114	46.539	82.961	141.552	0.00	0.00		O
ATOM	1590	CB	CYS	A	114	46.731	82.935	138.608	0.00	0.00		C
ATOM	1591	SG	CYS	A	114	45.201	83.745	138.085	0.00	0.00		S
ATOM	1592	HN	CYS	A	114	48.896	82.313	140.049	0.00	0.00		H
ATOM	1593	HCA	CYS	A	114	47.646	84.798	139.120	0.00	0.00		H
ATOM	1594	HCB	CYS	A	114	47.317	82.727	137.715	0.00	0.00		H
ATOM	1595	HCB	CYS	A	114	46.480	81.978	139.062	0.00	0.00		H
ATOM	1596	HSG	CYS	A	114	44.745	83.837	139.363	0.00	0.00		H
ATOM	1597	N	VAL	A	115	46.552	85.229	141.356	0.00	0.00		N
ATOM	1598	CA	VAL	A	115	45.891	85.540	142.595	0.00	0.00		C

ATOM	1599	C	VAL	A	115	44.501	85.933	142.260	0.00	0.00	C
ATOM	1600	O	VAL	A	115	44.285	87.007	141.646	0.00	0.00	O
ATOM	1601	CB	VAL	A	115	46.645	86.649	143.407	0.00	0.00	C
ATOM	1602	CG1	VAL	A	115	45.903	87.025	144.725	0.00	0.00	C
ATOM	1603	CG2	VAL	A	115	48.103	86.220	143.727	0.00	0.00	C
ATOM	1604	HN	VAL	A	115	46.773	85.975	140.796	0.00	0.00	H
ATOM	1605	HCA	VAL	A	115	45.856	84.654	143.236	0.00	0.00	H
ATOM	1606	HCB	VAL	A	115	46.699	87.555	142.792	0.00	0.00	H
ATOM	1607	HCG1	VAL	A	115	44.894	87.384	144.516	0.00	0.00	H
ATOM	1608	HCG1	VAL	A	115	45.836	86.162	145.389	0.00	0.00	H
ATOM	1609	HCG1	VAL	A	115	46.430	87.824	145.244	0.00	0.00	H
ATOM	1610	HCG2	VAL	A	115	48.680	86.166	142.804	0.00	0.00	H
ATOM	1611	HCG2	VAL	A	115	48.595	86.939	144.382	0.00	0.00	H
ATOM	1612	HCG2	VAL	A	115	48.121	85.245	144.219	0.00	0.00	H
ATOM	1613	N	ILE	A	116	43.486	85.122	142.632	0.00	0.00	N
ATOM	1614	CA	ILE	A	116	42.091	85.367	142.406	0.00	0.00	C
ATOM	1615	C	ILE	A	116	41.546	85.956	143.659	0.00	0.00	C
ATOM	1616	O	ILE	A	116	41.499	85.238	144.684	0.00	0.00	O
ATOM	1617	CB	ILE	A	116	41.377	84.054	141.928	0.00	0.00	C
ATOM	1618	CG1	ILE	A	116	42.115	83.388	140.718	0.00	0.00	C
ATOM	1619	CG2	ILE	A	116	39.882	84.329	141.600	0.00	0.00	C
ATOM	1620	CD1	ILE	A	116	41.584	81.997	140.313	0.00	0.00	C
ATOM	1621	HN	ILE	A	116	43.719	84.302	143.070	0.00	0.00	H
ATOM	1622	HCA	ILE	A	116	41.968	86.097	141.609	0.00	0.00	H
ATOM	1623	HCB	ILE	A	116	41.402	83.340	142.752	0.00	0.00	H
ATOM	1624	HCD1	ILE	A	116	41.660	81.319	141.164	0.00	0.00	H
ATOM	1625	HCD1	ILE	A	116	40.548	82.049	139.985	0.00	0.00	H
ATOM	1626	HCD1	ILE	A	116	42.177	81.598	139.488	0.00	0.00	H
ATOM	1627	HCG1	ILE	A	116	42.066	84.047	139.853	0.00	0.00	H
ATOM	1628	HCG1	ILE	A	116	43.171	83.251	140.961	0.00	0.00	H
ATOM	1629	HCG2	ILE	A	116	39.413	84.896	142.403	0.00	0.00	H
ATOM	1630	HCG2	ILE	A	116	39.787	84.903	140.680	0.00	0.00	H
ATOM	1631	HCG2	ILE	A	116	39.331	83.395	141.490	0.00	0.00	H
ATOM	1632	N	GLY	A	117	41.155	87.253	143.704	0.00	0.00	N
ATOM	1633	CA	GLY	A	117	40.702	87.931	144.895	0.00	0.00	C
ATOM	1634	C	GLY	A	117	40.537	89.399	144.772	0.00	0.00	C
ATOM	1635	O	GLY	A	117	40.687	89.947	143.660	0.00	0.00	O
ATOM	1636	HN	GLY	A	117	41.186	87.729	142.868	0.00	0.00	H
ATOM	1637	HCA	GLY	A	117	39.741	87.510	145.196	0.00	0.00	H
ATOM	1638	HCA	GLY	A	117	41.419	87.745	145.697	0.00	0.00	H
ATOM	1639	N	GLY	A							

ATOM	1679	O	LEU	A	122	47.842	92.938	145.597	0.00	0.00		O
ATOM	1680	CB	LEU	A	122	44.603	92.958	144.624	0.00	0.00		C
ATOM	1681	CG	LEU	A	122	43.584	92.064	143.839	0.00	0.00		C
ATOM	1682	CD1	LEU	A	122	42.530	92.939	143.116	0.00	0.00		C
ATOM	1683	CD2	LEU	A	122	44.269	91.122	142.820	0.00	0.00		C
ATOM	1684	HN	LEU	A	122	43.966	91.660	146.618	0.00	0.00		H
ATOM	1685	HCA	LEU	A	122	46.115	91.440	144.866	0.00	0.00		H
ATOM	1686	HCB	LEU	A	122	44.049	93.646	145.268	0.00	0.00		H
ATOM	1687	HCB	LEU	A	122	45.155	93.568	143.903	0.00	0.00		H
ATOM	1688	HCD1	LEU	A	122	42.002	93.566	143.835	0.00	0.00		H
ATOM	1689	HCD1	LEU	A	122	43.002	93.573	142.365	0.00	0.00		H
ATOM	1690	HCD1	LEU	A	122	41.790	92.308	142.622	0.00	0.00		H
ATOM	1691	HCD2	LEU	A	122	44.971	91.696	142.217	0.00	0.00		H
ATOM	1692	HCD2	LEU	A	122	44.806	90.320	143.327	0.00	0.00		H
ATOM	1693	HCD2	LEU	A	122	43.532	90.653	142.164	0.00	0.00		H
ATOM	1694	HCG	LEU	A	122	43.044	91.428	144.543	0.00	0.00		H
ATOM	1695	N	THR	A	123	46.488	93.935	147.087	0.00	0.00		N
ATOM	1696	CA	THR	A	123	47.572	94.645	147.730	0.00	0.00		C
ATOM	1697	C	THR	A	123	48.558	93.722	148.364	0.00	0.00		C
ATOM	1698	O	THR	A	123	49.766	94.070	148.367	0.00	0.00		O
ATOM	1699	CB	THR	A	123	47.162	95.791	148.706	0.00	0.00		C
ATOM	1700	CG2	THR	A	123	46.541	95.353	150.048	0.00	0.00		C
ATOM	1701	OG1	THR	A	123	48.333	96.546	149.030	0.00	0.00		O
ATOM	1702	HN	THR	A	123	45.596	94.087	147.398	0.00	0.00		H
ATOM	1703	HCA	THR	A	123	48.091	95.158	146.915	0.00	0.00		H
ATOM	1704	HCB	THR	A	123	46.453	96.451	148.197	0.00	0.00		H
ATOM	1705	HCG2	THR	A	123	45.628	94.799	149.864	0.00	0.00		H
ATOM	1706	HCG2	THR	A	123	47.229	94.727	150.619	0.00	0.00		H
ATOM	1707	HCG2	THR	A	123	46.292	96.229	150.649	0.00	0.00		H
ATOM	1708	HOG1	THR	A	123	49.011	95.850	148.960	0.00	0.00		H
ATOM	1709	N	GLY	A	124	48.163	92.544	148.913	0.00	0.00		N
ATOM	1710	CA	GLY	A	124	49.031	91.464	149.295	0.00	0.00		C
ATOM	1711	C	GLY	A	124	49.940	91.034	148.207	0.00	0.00		C
ATOM	1712	O	GLY	A	124	51.181	91.121	148.361	0.00	0.00		O
ATOM	1713	HN	GLY	A	124	47.222	92.427	149.078	0.00	0.00		H
ATOM	1714	HCA	GLY	A	124	49.599	91.755	150.180	0.00	0.00		H
ATOM	1715	HCA	GLY	A	124	48.412	90.610	149.576	0.00	0.00		H
ATOM	1716	N	ALA	A	125	49.418	90.591	147.039	0.00	0.00		N
ATOM	1717	CA	ALA	A	125	50.171	90.269	145.852	0.00	0.00		C
ATOM	1718	C	ALA	A	125	51.128	91.342	145.444	0.00	0.00		C
ATOM	1719	O	ALA	A	125	52.326	91.059	145.200	0.00	0.00		O
ATOM	1720	CB	ALA	A	125	49.187	89.941	144.703	0.00	0.00		C
ATOM	1721	HN	ALA	A	125	48.468	90.463	147.033	0.00	0.00		H
ATOM	1722	HCA	ALA	A	125	50.737	89.355	146.064	0.00	0.00		H
ATOM	1723	HCB	ALA	A	125	48.678	90.836	144.345	0.00	0.00		H
ATOM	1724	HCB	ALA	A	125	49.721	89.490	143.864	0.00	0.00		H
ATOM	1725	HCB	ALA	A	125	48.431	89.235	145.046	0.00	0.00		H
ATOM	1726	N	ASP	A	126	50.704	92.626	145.373	0.00	0.00		N
ATOM	1727	CA	ASP	A	126	51.527	93.768	145.084	0.00	0.00		C
ATOM	1728	C	ASP	A	126	52.677	93.918	146.022	0.00	0.00		C
ATOM	1729	O	ASP	A	126	53.837	93.955	145.541	0.00	0.00		O
ATOM	1730	CB	ASP	A	126	50.637	95.043	145.057	0.00	0.00		C
ATOM	1731	CG	ASP	A	126	51.275	96.176	144.370	0.00	0.00		C
ATOM	1732	OD1	ASP	A	126	51.590	96.086	143.164	0.00	0.00		O
ATOM	1733	OD2	ASP	A	126	51.514	97.244	144.973	0.00	0.00		O
ATOM	1734	HN	ASP	A	126	49.764	92.764	145.495	0.00	0.00		H
ATOM	1735	HCA	ASP	A	126	51.923	93.610	144.074	0.00	0.00		H
ATOM	1736	HCB	ASP	A	126	49.708	94.829	144.534	0.00	0.00		H
ATOM	1737	HCB	ASP	A	126	50.379	95.340	146.073	0.00	0.00		H
ATOM	1738	N	THR	A	127	52.506	93.993	147.370	0.00	0.00		N
ATOM	1739	CA	THR	A	127	53.610	94.074	148.298	0.00	0.00		C
ATOM	1740	C	THR	A	127	54.504	92.880	148.244	0.00	0.00		C
ATOM	1741	O	THR	A	127	55.737	93.062	148.403	0.00	0.00		O
ATOM	1742	CB	THR	A	127	53.239	94.433	149.772	0.00	0.00		C
ATOM	1743	CG2	THR	A	127	52.372	93.386	150.497	0.00	0.00		C
ATOM	1744	OG1	THR	A	127	54.440	94.608	150.539	0.00	0.00		O
ATOM	1745	HN	THR	A	127	51.606	93.991	147.706	0.00	0.00		H
ATOM	1746	HCA	THR	A	127	54.198	94.930	147.958	0.00	0.00		H
ATOM	1747	HCB	THR	A	127	52.696	95.384	149.775	0.00	0.00		H
ATOM	1748	HCG2	THR	A	127	51.448	93.233	149.956	0.00	0.00		H
ATOM	1749	HCG2	THR	A	127	52.887	92.429	150.576	0.00	0.00		H
ATOM	1750	HCG2	THR	A	127	52.117	93.743	151.494	0.00	0.00		H
ATOM	1751	HOG1	THR	A	127	55.077	94.135	149.975	0.00	0.00		H
ATOM	1752	N	PHE	A	128	54.016	91.628	148.067	0.00	0.00		N
ATOM	1753	CA	PHE	A	128	54.814	90.449	147.864	0.00	0.00		C
ATOM	1754	C	PHE	A	128	55.697	90.575	146.670	0.00	0.00		C
ATOM	1755	O	PHE	A	128	56.921	90.341	146.809	0.00	0.00		O
ATOM	1756	CG	PHE	A	128	53.881	89.208	147.775	0.00	0.00		C
ATOM	1757	CG	PHE	A	128	54.611	87.915	147.666	0.00	0.00		C
ATOM	1758	CD1	PHE	A	128	55.364	87.431	148.761	0.00	0.00		C

ATOM	1759	CD2	PHE	A	128	54.562	87.141	146.481	0.00	0.00		C
ATOM	1760	CE1	PHE	A	128	56.056	86.209	148.673	0.00	0.00		C
ATOM	1761	CE2	PHE	A	128	55.254	85.919	146.393	0.00	0.00		C
ATOM	1762	CZ	PHE	A	128	56.002	85.454	147.490	0.00	0.00		C
ATOM	1763	HN	PHE	A	128	53.064	91.510	148.096	0.00	0.00		H
ATOM	1764	HCA	PHE	A	128	55.442	90.329	148.754	0.00	0.00		H
ATOM	1765	HCB	PHE	A	128	53.254	89.174	148.669	0.00	0.00		H
ATOM	1766	HCB	PHE	A	128	53.205	89.332	146.927	0.00	0.00		H
ATOM	1767	HCD1	PHE	A	128	55.411	87.966	149.630	0.00	0.00		H
ATOM	1768	HCD2	PHE	A	128	54.023	87.463	145.674	0.00	0.00		H
ATOM	1769	HCE1	PHE	A	128	56.598	85.871	149.469	0.00	0.00		H
ATOM	1770	HCE2	PHE	A	128	55.215	85.369	145.532	0.00	0.00		H
ATOM	1771	HCZ	PHE	A	128	56.507	84.570	147.430	0.00	0.00		H
ATOM	1772	N	ARG	A	129	55.211	90.976	145.468	0.00	0.00		N
ATOM	1773	CA	ARG	A	129	56.029	91.292	144.325	0.00	0.00		C
ATOM	1774	C	ARG	A	129	57.022	92.355	144.629	0.00	0.00		C
ATOM	1775	O	ARG	A	129	58.227	92.131	144.375	0.00	0.00		O
ATOM	1776	CB	ARG	A	129	55.157	91.663	143.091	0.00	0.00		C
ATOM	1777	CG	ARG	A	129	55.952	91.959	141.775	0.00	0.00		C
ATOM	1778	CD	ARG	A	129	56.467	93.414	141.615	0.00	0.00		C
ATOM	1779	NE	ARG	A	129	56.930	93.630	140.281	0.00	0.00		N
ATOM	1780	CZ	ARG	A	129	57.377	94.791	139.795	0.00	0.00		C
ATOM	1781	NH1	ARG	A	129	57.413	95.919	140.489	0.00	0.00		N
ATOM	1782	NH2	ARG	A	129	57.815	94.830	138.548	0.00	0.00		N
ATOM	1783	HN	ARG	A	129	54.259	91.053	145.385	0.00	0.00		H
ATOM	1784	HNE	ARG	A	129	56.947	92.872	139.681	0.00	0.00		H
ATOM	1785	HNH1	ARG	A	129	57.098	95.930	141.401	0.00	0.00		H
ATOM	1786	HNH1	ARG	A	129	57.752	96.726	140.084	0.00	0.00		H
ATOM	1787	HNH2	ARG	A	129	57.796	94.035	138.000	0.00	0.00		H
ATOM	1788	HNH2	ARG	A	129	58.157	95.657	138.188	0.00	0.00		H
ATOM	1789	HCA	ARG	A	129	56.567	90.376	144.061	0.00	0.00		H
ATOM	1790	HCB	ARG	A	129	54.502	90.809	142.901	0.00	0.00		H
ATOM	1791	HCB	ARG	A	129	54.508	92.509	143.332	0.00	0.00		H
ATOM	1792	HCD	ARG	A	129	55.661	94.116	141.850	0.00	0.00		H
ATOM	1793	HCD	ARG	A	129	57.298	93.598	142.296	0.00	0.00		H
ATOM	1794	HCG	ARG	A	129	56.794	91.266	141.686	0.00	0.00		H
ATOM	1795	HCG	ARG	A	129	55.294	91.763	140.930	0.00	0.00		H
ATOM	1796	N	SER	A	130	56.667	93.557	145.143	0.00	0.00		N
ATOM	1797	CA	SER	A	130	57.600	94.623	145.428	0.00	0.00		C
ATOM	1798	C	SER	A	130	58.716	94.175	146.307	0.00	0.00		C
ATOM	1799	O	SER	A	130	59.900	94.436	145.987	0.00	0.00		O
ATOM	1800	CB	SER	A	130	56.894	95.881	145.997	0.00	0.00		C
ATOM	1801	OG	SER	A	130	56.539	95.738	147.370	0.00	0.00		O
ATOM	1802	HN	SER	A	130	55.734	93.702	145.307	0.00	0.00		H
ATOM	1803	HCA	SER	A	130	58.028	94.927	144.467	0.00	0.00		H
ATOM	1804	HCB	SER	A	130	57.563	96.741	145.910	0.00	0.00		H
ATOM	1805	HCB	SER	A	130	55.993	96.095	145.415	0.00	0.00		H
ATOM	1806	HOG	SER	A	130	56.105	96.587	147.616	0.00	0.00		H
ATOM	1807	N	GLU	A	131	58.453	93.427	147.402	0.00	0.00		N
ATOM	1808	CA	GLU	A	131	59.428	92.819	148.261	0.00	0.00		C
ATOM	1809	C	GLU	A	131	60.094	91.598	147.706	0.00	0.00		C
ATOM	1810	O	GLU	A	131	60.990	91.072	148.402	0.00	0.00		O
ATOM	1811	CB	GLU	A	131	58.676	92.543	149.602	0.00	0.00		C
ATOM	1812	CG	GLU	A	131	59.585	92.167	150.805	0.00	0.00		C
ATOM	1813	CD	GLU	A	131	58.864	92.099	152.080	0.00	0.00		C
ATOM	1814	OE1	GLU	A	131	57.853	91.378	152.191	0.00	0.00		O
ATOM	1815	OE2	GLU	A	131	59.270	92.710	153.093	0.00	0.00		O
ATOM	1816	HN	GLU	A	131	57.533	93.295	147.643	0.00	0.00		H
ATOM	1817	HCA	GLU	A	131	60.214	93.554	148.464	0.00	0.00		H
ATOM	1818	HCB	GLU	A	131	58.122	93.446	149.884	0.00	0.00		H
ATOM	1819	HCB	GLU	A	131	57.947	91.742	149.443	0.00	0.00		H
ATOM	1820	HCG	GLU	A	131	60.022	91.181	150.653	0.00	0.00		H
ATOM	1821	HCG	GLU	A	131	60.395	92.894	150.880	0.00	0.00		H
ATOM	1822	N	TRP	A	132	59.832	91.026	146.501	0.00	0.00		N
ATOM	1823	CA	TRP	A	132	60.353	89.753	146.058	0.00	0.00		C
ATOM	1824	C	TRP	A	132	61.837	89.641	146.143	0.00	0.00		C
ATOM	1825	O	TRP	A	132	62.339	88.712	146.817	0.00	0.00		O
ATOM	1826	CB	TRP	A	132	59.842	89.465	144.615	0.00	0.00		C
ATOM	1827	CG	TRP	A	132	60.423	88.256	143.984	0.00	0.00		C
ATOM	1828	CD1	TRP	A	132	61.327	88.255	142.920	0.00	0.00		C
ATOM	1829	CD2	TRP	A	132	60.222	86.913	144.310	0.00	0.00		C
ATOM	1830	CE2	TRP	A	132	60.996	86.158	143.427	0.00	0.00		C
ATOM	1831	CE3	TRP	A	132	59.424	86.285	145.286	0.00	0.00		C
ATOM	1832	NE1	TRP	A	132	61.664	86.992	142.618	0.00	0.00		N
ATOM	1833	CZ2	TRP	A	132	60.999	84.755	143.471	0.00	0.00		C
ATOM	1834	CZ3	TRP	A	132	59.407	84.874	145.333	0.00	0.00		C
ATOM	1835	CH2	TRP	A	132	60.187	84.114	144.431	0.00	0.00		C
ATOM	1836	HN	TRP	A	132	59.238	91.465	145.893	0.00	0.00		H
ATOM	1837	HNE1	TRP	A	132	62.297	86.741	141.947	0.00	0.00		H
ATOM	1838	HCA	TRP	A	132	59.916	88.992	146.711	0.00	0.00		H



ATOM	1839	HC	B	TRP	A	132	58.757	89.352	144.630	0.00	0.00	
ATOM	1840	HC	B	TRP	A	132	60.072	90.327	143.984	0.00	0.00	
ATOM	1841	HCD1		TRP	A	132	61.692	89.085	142.449	0.00	0.00	
ATOM	1842	HCE3		TRP	A	132	58.856	86.833	145.934	0.00	0.00	
ATOM	1843	HCH2		TRP	A	132	60.158	83.094	144.469	0.00	0.00	
ATOM	1844	HCZ2		TRP	A	132	61.571	84.215	142.818	0.00	0.00	
ATOM	1845	HCZ3		TRP	A	132	58.821	84.399	146.019	0.00	0.00	
ATOM	1846	N		SER	A	133	62.636	90.524	145.504	0.00	0.00	
ATOM	1847	CA		SER	A	133	64.070	90.456	145.394	0.00	0.00	
ATOM	1848	C		SER	A	133	64.771	90.072	146.652	0.00	0.00	
ATOM	1849	O		SER	A	133	65.376	88.972	146.738	0.00	0.00	
ATOM	1850	CB		SER	A	133	64.583	91.817	144.847	0.00	0.00	
ATOM	1851	OG		SER	A	133	64.199	92.905	145.695	0.00	0.00	
ATOM	1852	HN		SER	A	133	62.187	91.250	145.045	0.00	0.00	
ATOM	1853	HCA		SER	A	133	64.293	89.699	144.636	0.00	0.00	
ATOM	1854	HC	B	SER	A	133	65.672	91.800	144.755	0.00	0.00	
ATOM	1855	HC	B	SER	A	133	64.164	91.989	143.852	0.00	0.00	
ATOM	1856	HOG		SER	A	133	64.528	93.717	145.246	0.00	0.00	
ATOM	1857	N		ASP	A	134	64.721	90.889	147.727	0.00	0.00	
ATOM	1858	CA		ASP	A	134	65.366	90.634	148.979	0.00	0.00	
ATOM	1859	C		ASP	A	134	64.841	89.460	149.743	0.00	0.00	
ATOM	1860	O		ASP	A	134	65.495	89.101	150.753	0.00	0.00	
ATOM	1861	CB		ASP	A	134	65.497	91.952	149.799	0.00	0.00	
ATOM	1862	CG		ASP	A	134	64.268	92.499	150.387	0.00	0.00	
ATOM	1863	OD1		ASP	A	134	63.125	92.222	149.988	0.00	0.00	
ATOM	1864	OD2		ASP	A	134	64.317	93.232	151.396	0.00	0.00	
ATOM	1865	HN		ASP	A	134	64.232	91.716	147.603	0.00	0.00	
ATOM	1866	HCA		ASP	A	134	66.396	90.368	148.722	0.00	0.00	
ATOM	1867	HC	B	ASP	A	134	66.201	91.774	150.616	0.00	0.00	
ATOM	1868	HC	B	ASP	A	134	65.930	92.732	149.170	0.00	0.00	
ATOM	1869	N		LEU	A	135	63.800	88.683	149.332	0.00	0.00	
ATOM	1870	CA		LEU	A	135	63.465	87.415	149.923	0.00	0.00	
ATOM	1871	C		LEU	A	135	64.433	86.377	149.473	0.00	0.00	
ATOM	1872	O		LEU	A	135	64.676	85.430	150.258	0.00	0.00	
ATOM	1873	CB		LEU	A	135	61.998	86.973	149.635	0.00	0.00	
ATOM	1874	CG		LEU	A	135	60.890	87.940	150.162	0.00	0.00	
ATOM	1875	CD1		LEU	A	135	59.485	87.508	149.661	0.00	0.00	
ATOM	1876	CD2		LEU	A	135	60.867	88.061	151.709	0.00	0.00	
ATOM	1877	HN		LEU	A	135	63.322	88.898	148.527	0.00	0.00	
ATOM	1878	HCA		LEU	A	135	63.564	87.501	151.007	0.00	0.00	
ATOM	1879	HC	B	LEU	A	135	61.884	86.854	148.555	0.00	0.00	
ATOM	1880	HC	B	LEU	A	135	61.831	85.988	150.082	0.00	0.00	
ATOM	1881	HCD1		LEU	A	135	59.185	86.569	150.126	0.00	0.00	
ATOM	1882	HCD1		LEU	A	135	58.744	88.272	149.907	0.00	0.00	
ATOM	1883	HCD1		LEU	A	135	59.483	87.379	148.578	0.00	0.00	
ATOM	1884	HCD2		LEU	A	135	60.774	87.078	152.172	0.00	0.00	
ATOM	1885	HCD2		LEU	A	135	61.777	88.536	152.073	0.00	0.00	
ATOM	1886	HCD2		LEU	A	135	60.024	88.676	152.029	0.00	0.00	
ATOM	1887	HCG		LEU	A	135	61.089	88.933	149.753	0.00	0.00	
ATOM	1888	N		LEU	A	136	65.126	86.476	148.305	0.00	0.00	
ATOM	1889	CA		LEU	A	136	66.171	85.572	147.910	0.00	0.00	
ATOM	1890	C		LEU	A	136	67.362	85.864	148.755	0.00	0.00	
ATOM	1891	O		LEU	A	136	67.967	84.919	149.314	0.00	0.00	
ATOM	1892	CB		LEU	A	136	66.520	85.669	146.392	0.00	0.00	
ATOM	1893	CG		LEU	A	136	65.445	85.198	145.357	0.00	0.00	
ATOM	1894	CD1		LEU	A	136	64.864	83.788	145.645	0.00	0.00	
ATOM	1895	CD2		LEU	A	136	64.300	86.219	145.144	0.00	0.00	
ATOM	1896	HN		LEU	A	136	65.018	87.267	147.766	0.00	0.00	
ATOM	1897	HCA		LEU	A	136	65.858	84.543	148.111	0.00	0.00	
ATOM	1898	HC	B	LEU	A	136	66.811	86.696	146.155	0.00	0.00	
ATOM	1899	HC	B	LEU	A	136	67.407	85.050	146.221	0.00	0.00	
ATOM	1900	HCD1		LEU	A	136	65.664	83.077	145.853	0.00	0.00	
ATOM	1901	HCD1		LEU	A	136	64.185	83.811	146.500	0.00	0.00	
ATOM	1902	HCD1		LEU	A	136	64.306	83.427	144.777	0.00	0.00	
ATOM	1903	HCD2		LEU	A	136	64.704	87.196	144.881	0.00	0.00	
ATOM	1904	HCD2		LEU	A	136	63.667	85.892	144.320	0.00	0.00	
ATOM	1905	HCD2		LEU	A	136	63.681	86.317	146.036	0.00	0.00	
ATOM	1906	HCG		LEU	A	136	65.962	85.128	144.393	0.00	0.00	
ATOM	1907	N		SER	A	137	67.732	87.151	148.977	0.00	0.00	
ATOM	1908	CA		SER	A	137	68.770	87.573	149.881	0.00	0.00	
ATOM	1909	C		SER	A	137	68.556	87.064	151.266	0.00	0.00	
ATOM	1910	O		SER	A	137	69.496	86.435	151.810	0.00	0.00	
ATOM	1911	CB		SER	A	137	68.930	89.113	149.868	0.00	0.00	
ATOM	1912	OG		SER	A	137	70.120	89.498	150.555	0.00	0.00	
ATOM	1913	HN		SER	A	137	67.225	87.826	148.499	0.00	0.00	
ATOM	1914	HCA		SER	A	137	69.710	87.161	149.496	0.00	0.00	
ATOM	1915	HC	B	SER	A	137	68.998	89.468	148.836	0.00	0.00	
ATOM	1916	HC	B	SER	A	137	68.076	89.595	150.347	0.00	0.00	
ATOM	1917	HOG		SER	A	137	70.162	90.480	150.480	0.00	0.00	
ATOM	1918	N		ASP	A	138	67.362	87.194	151.908	0.00	0.00	

ATOM	1919	CA	ASP	A	138	67.029	86.520	153.141	0.00	0.00	C
ATOM	1920	C	ASP	A	138	67.240	85.045	153.041	0.00	0.00	C
ATOM	1921	O	ASP	A	138	68.094	84.499	153.780	0.00	0.00	O
ATOM	1922	CB	ASP	A	138	65.562	86.776	153.612	0.00	0.00	C
ATOM	1923	CG	ASP	A	138	65.234	88.115	154.117	0.00	0.00	C
ATOM	1924	OD1	ASP	A	138	65.960	89.116	153.959	0.00	0.00	O
ATOM	1925	OD2	ASP	A	138	64.164	88.301	154.736	0.00	0.00	O
ATOM	1926	HN	ASP	A	138	66.712	87.783	151.518	0.00	0.00	H
ATOM	1927	HCA	ASP	A	138	67.696	86.911	153.917	0.00	0.00	H
ATOM	1928	HCB	ASP	A	138	64.867	86.546	152.806	0.00	0.00	H
ATOM	1929	HCB	ASP	A	138	65.342	86.093	154.438	0.00	0.00	H
ATOM	1930	N	LEU	A	139	66.525	84.278	152.180	0.00	0.00	N
ATOM	1931	CA	LEU	A	139	66.564	82.841	152.148	0.00	0.00	C
ATOM	1932	C	LEU	A	139	67.931	82.289	151.970	0.00	0.00	C
ATOM	1933	O	LEU	A	139	68.284	81.335	152.702	0.00	0.00	O
ATOM	1934	CB	LEU	A	139	65.577	82.289	151.079	0.00	0.00	C
ATOM	1935	CG	LEU	A	139	64.067	82.461	151.446	0.00	0.00	C
ATOM	1936	CD1	LEU	A	139	63.180	82.247	150.192	0.00	0.00	C
ATOM	1937	CD2	LEU	A	139	63.619	81.505	152.587	0.00	0.00	C
ATOM	1938	HN	LEU	A	139	65.922	84.710	151.572	0.00	0.00	H
ATOM	1939	HCA	LEU	A	139	66.223	82.504	153.130	0.00	0.00	H
ATOM	1940	HCB	LEU	A	139	65.789	82.798	150.134	0.00	0.00	H
ATOM	1941	HCB	LEU	A	139	65.767	81.224	150.916	0.00	0.00	H
ATOM	1942	HCD1	LEU	A	139	63.318	81.243	149.788	0.00	0.00	H
ATOM	1943	HCD1	LEU	A	139	62.129	82.380	150.447	0.00	0.00	H
ATOM	1944	HCD1	LEU	A	139	63.430	82.973	149.416	0.00	0.00	H
ATOM	1945	HCD2	LEU	A	139	64.158	81.702	153.512	0.00	0.00	H
ATOM	1946	HCD2	LEU	A	139	62.562	81.647	152.804	0.00	0.00	H
ATOM	1947	HCD2	LEU	A	139	63.782	80.463	152.305	0.00	0.00	H
ATOM	1948	HCG	LEU	A	139	63.896	83.485	151.794	0.00	0.00	H
ATOM	1949	N	GLN	A	140	68.826	82.832	151.112	0.00	0.00	N
ATOM	1950	CA	GLN	A	140	70.194	82.405	150.989	0.00	0.00	C
ATOM	1951	C	GLN	A	140	71.005	82.480	152.210	0.00	0.00	C
ATOM	1952	O	GLN	A	140	72.117	81.965	152.170	0.00	0.00	O
ATOM	1953	CB	GLN	A	140	70.852	83.127	149.767	0.00	0.00	C
ATOM	1954	CG	GLN	A	140	70.364	82.613	148.377	0.00	0.00	C
ATOM	1955	CD	GLN	A	140	70.560	81.160	148.222	0.00	0.00	C
ATOM	1956	NE2	GLN	A	140	69.529	80.316	148.140	0.00	0.00	N
ATOM	1957	OE1	GLN	A	140	71.700	80.655	148.275	0.00	0.00	O
ATOM	1958	HN	GLN	A	140	68.528	83.549	150.550	0.00	0.00	H
ATOM	1959	HNE2	GLN	A	140	68.623	80.641	148.052	0.00	0.00	H
ATOM	1960	HNE2	GLN	A	140	69.708	79.384	148.244	0.00	0.00	H
ATOM	1961	HCA	GLN	A	140	70.155	81.333	150.774	0.00	0.00	H
ATOM	1962	HCB	GLN	A	140	70.665	84.203	149.838	0.00	0.00	H
ATOM	1963	HCB	GLN	A	140	71.939	82.995	149.796	0.00	0.00	H
ATOM	1964	HCG	GLN	A	140	69.308	82.860	148.249	0.00	0.00	H
ATOM	1965	HCG	GLN	A	140	70.923	83.121	147.589	0.00	0.00	H
ATOM	1966	N	LYS	A	141	70.570	82.975	153.360	0.00	0.00	N
ATOM	1967	CA	LYS	A	141	71.228	82.790	154.629	0.00	0.00	C
ATOM	1968	C	LYS	A	141	71.107	81.394	155.156	0.00	0.00	C
ATOM	1969	O	LYS	A	141	71.943	81.041	156.022	0.00	0.00	O
ATOM	1970	CB	LYS	A	141	70.679	83.817	155.662	0.00	0.00	C
ATOM	1971	CG	LYS	A	141	70.960	85.297	155.276	0.00	0.00	C
ATOM	1972	CD	LYS	A	141	70.310	86.299	156.270	0.00	0.00	C
ATOM	1973	CE	LYS	A	141	70.523	87.783	155.887	0.00	0.00	C
ATOM	1974	NZ	LYS	A	141	71.937	88.164	155.964	0.00	0.00	N
ATOM	1975	HN	LYS	A	141	69.733	83.447	153.388	0.00	0.00	H
ATOM	1976	HNZ	LYS	A	141	72.477	87.626	155.288	0.00	0.00	H
ATOM	1977	HNZ	LYS	A	141	72.038	89.157	155.756	0.00	0.00	H
ATOM	1978	HNZ	LYS	A	141	72.292	87.981	156.901	0.00	0.00	H
ATOM	1979	HCA	LYS	A	141	72.296	83.000	154.501	0.00	0.00	H
ATOM	1980	HCB	LYS	A	141	69.602	83.663	155.780	0.00	0.00	H
ATOM	1981	HCB	LYS	A	141	71.143	83.630	156.636	0.00	0.00	H
ATOM	1982	HCD	LYS	A	141	69.233	86.112	156.304	0.00	0.00	H
ATOM	1983	HCD	LYS	A	141	70.708	86.129	157.274	0.00	0.00	H
ATOM	1984	HCE	LYS	A	141	70.156	87.968	154.875	0.00	0.00	H
ATOM	1985	HCE	LYS	A	141	69.960	88.416	156.575	0.00	0.00	H
ATOM	1986	HCG	LYS	A	141	72.042	85.453	155.255	0.00	0.00	H
ATOM	1987	HCG	LYS	A	141	70.572	85.496	154.274	0.00	0.00	H
ATOM	1988	N	ALA	A	142	70.139	80.519	154.763	0.00	0.00	N
ATOM	1989	CA	ALA	A	142	69.937	79.204	155.333	0.00	0.00	C
ATOM	1990	C	ALA	A	142	69.150	78.234	154.509	0.00	0.00	C
ATOM	1991	O	ALA	A	142	69.155	77.031	154.865	0.00	0.00	O
ATOM	1992	CB	ALA	A	142	69.267	79.366	156.726	0.00	0.00	C
ATOM	1993	HN	ALA	A	142	69.526	80.816	154.091	0.00	0.00	H
ATOM	1994	HCA	ALA	A	142	70.920	78.740	155.474	0.00	0.00	H
ATOM	1995	HCB	ALA	A	142	69.873	79.998	157.378	0.00	0.00	H
ATOM	1996	HCB	ALA	A	142	68.279	79.822	156.623	0.00	0.00	H
ATOM	1997	HCB	ALA	A	142	69.155	78.397	157.218	0.00	0.00	H
ATOM	1998	N	GLY	A	143	68.396	78.599	153.445	0.00	0.00	N

ATOM	1999	CA	GLY	A	143	67.524	77.754	152.677	0.00	0.00	C
ATOM	2000	C	GLY	A	143	68.182	76.802	151.751	0.00	0.00	C
ATOM	2001	O	GLY	A	143	68.830	75.841	152.225	0.00	0.00	O
ATOM	2002	HN	GLY	A	143	68.405	79.519	153.203	0.00	0.00	H
ATOM	2003	HCA	GLY	A	143	66.875	77.187	153.350	0.00	0.00	H
ATOM	2004	HCA	GLY	A	143	66.871	78.416	152.103	0.00	0.00	H
ATOM	2005	N	LYS	A	144	68.039	76.938	150.412	0.00	0.00	N
ATOM	2006	CA	LYS	A	144	68.455	75.993	149.404	0.00	0.00	C
ATOM	2007	C	LYS	A	144	69.639	76.451	148.622	0.00	0.00	C
ATOM	2008	O	LYS	A	144	70.127	77.592	148.791	0.00	0.00	O
ATOM	2009	CB	LYS	A	144	67.243	75.724	148.461	0.00	0.00	C
ATOM	2010	CG	LYS	A	144	65.956	75.161	149.127	0.00	0.00	C
ATOM	2011	CD	LYS	A	144	66.123	73.744	149.740	0.00	0.00	C
ATOM	2012	CE	LYS	A	144	64.781	73.138	150.216	0.00	0.00	C
ATOM	2013	NZ	LYS	A	144	64.988	71.798	150.772	0.00	0.00	N
ATOM	2014	HN	LYS	A	144	67.586	77.736	150.101	0.00	0.00	H
ATOM	2015	HNZ	LYS	A	144	65.634	71.846	151.559	0.00	0.00	H
ATOM	2016	HNZ	LYS	A	144	64.099	71.414	151.092	0.00	0.00	H
ATOM	2017	HNZ	LYS	A	144	65.377	71.184	150.056	0.00	0.00	H
ATOM	2018	HCA	LYS	A	144	68.749	75.045	149.863	0.00	0.00	H
ATOM	2019	HC	LYS	A	144	66.979	76.665	147.967	0.00	0.00	H
ATOM	2020	HC	LYS	A	144	67.541	75.024	147.675	0.00	0.00	H
ATOM	2021	HCD	LYS	A	144	66.561	73.078	148.991	0.00	0.00	H
ATOM	2022	HCD	LYS	A	144	66.804	73.796	150.593	0.00	0.00	H
ATOM	2023	HCE	LYS	A	144	64.336	73.770	150.986	0.00	0.00	H
ATOM	2024	HCE	LYS	A	144	64.084	73.066	149.378	0.00	0.00	H
ATOM	2025	HCG	LYS	A	144	65.611	75.857	149.893	0.00	0.00	H
ATOM	2026	HCG	LYS	A	144	65.179	75.119	148.355	0.00	0.00	H
ATOM	2027	N	ILE	A	145	70.205	75.617	147.719	0.00	0.00	N
ATOM	2028	CA	ILE	A	145	71.372	75.882	146.918	0.00	0.00	C
ATOM	2029	C	ILE	A	145	71.212	77.060	146.014	0.00	0.00	C
ATOM	2030	O	ILE	A	145	70.195	77.167	145.285	0.00	0.00	O
ATOM	2031	CB	ILE	A	145	71.802	74.567	146.174	0.00	0.00	C
ATOM	2032	CG1	ILE	A	145	73.199	74.648	145.473	0.00	0.00	C
ATOM	2033	CG2	ILE	A	145	70.734	74.058	145.159	0.00	0.00	C
ATOM	2034	CD1	ILE	A	145	74.397	74.910	146.417	0.00	0.00	C
ATOM	2035	HN	ILE	A	145	69.781	74.753	147.610	0.00	0.00	H
ATOM	2036	HCA	ILE	A	145	72.164	76.115	147.636	0.00	0.00	H
ATOM	2037	HC	ILE	A	145	71.888	73.785	146.938	0.00	0.00	H
ATOM	2038	HCD1	ILE	A	145	74.369	75.924	146.816	0.00	0.00	H
ATOM	2039	HCD1	ILE	A	145	74.394	74.199	147.246	0.00	0.00	H
ATOM	2040	HCD1	ILE	A	145	75.332	74.791	145.866	0.00	0.00	H
ATOM	2041	HCG1	ILE	A	145	73.393	73.696	144.969	0.00	0.00	H
ATOM	2042	HCG1	ILE	A	145	73.185	75.420	144.702	0.00	0.00	H
ATOM	2043	HCG2	ILE	A	145	69.757	73.961	145.633	0.00	0.00	H
ATOM	2044	HCG2	ILE	A	145	70.641	74.741	144.314	0.00	0.00	H
ATOM	2045	HCG2	ILE	A	145	71.013	73.075	144.773	0.00	0.00	H
ATOM	2046	N	THR	A	146	72.173	78.018	145.964	0.00	0.00	N
ATOM	2047	CA	THR	A	146	72.119	79.238	145.188	0.00	0.00	C
ATOM	2048	C	THR	A	146	71.887	79.017	143.731	0.00	0.00	C
ATOM	2049	O	THR	A	146	71.360	79.909	143.024	0.00	0.00	O
ATOM	2050	CB	THR	A	146	73.368	80.136	145.485	0.00	0.00	C
ATOM	2051	CG2	THR	A	146	74.590	79.924	144.562	0.00	0.00	C
ATOM	2052	OG1	THR	A	146	73.049	81.529	145.511	0.00	0.00	O
ATOM	2053	HN	THR	A	146	72.947	77.881	146.530	0.00	0.00	H
ATOM	2054	HCA	THR	A	146	71.246	79.768	145.572	0.00	0.00	H
ATOM	2055	HC	THR	A	146	73.706	79.920	146.504	0.00	0.00	H
ATOM	2056	HCG2	THR	A	146	74.869	78.869	144.539	0.00	0.00	H
ATOM	2057	HCG2	THR	A	146	74.369	80.257	143.546	0.00	0.00	H
ATOM	2058	HCG2	THR	A	146	75.441	80.499	144.934	0.00	0.00	H
ATOM	2059	HOG1	THR	A	146	72.628	81.795	144.675	0.00	0.00	H
ATOM	2060	N	ALA	A	147	72.191	77.819	143.177	0.00	0.00	N
ATOM	2061	CA	ALA	A	147	71.887	77.413	141.839	0.00	0.00	C
ATOM	2062	C	ALA	A	147	70.432	77.465	141.521	0.00	0.00	C
ATOM	2063	O	ALA	A	147	70.104	77.542	140.313	0.00	0.00	O
ATOM	2064	CB	ALA	A	147	72.470	75.999	141.600	0.00	0.00	C
ATOM	2065	HN	ALA	A	147	72.624	77.172	143.750	0.00	0.00	H
ATOM	2066	HCA	ALA	A	147	72.408	78.102	141.167	0.00	0.00	H
ATOM	2067	HC	ALA	A	147	73.541	75.990	141.816	0.00	0.00	H
ATOM	2068	HC	ALA	A	147	71.978	75.264	142.239	0.00	0.00	H
ATOM	2069	HC	ALA	A	147	72.331	75.703	140.558	0.00	0.00	H
ATOM	2070	N	GLU	A	148	69.475	77.490	142.487	0.00	0.00	N
ATOM	2071	CA	GLU	A	148	68.089	77.769	142.235	0.00	0.00	C
ATOM	2072	C	GLU	A	148	67.920	79.214	141.924	0.00	0.00	C
ATOM	2073	O	GLU	A	148	67.538	79.527	140.772	0.00	0.00	O
ATOM	2074	CB	GLU	A	148	67.173	77.335	143.413	0.00	0.00	C
ATOM	2075	CG	GLU	A	148	67.169	75.799	143.666	0.00	0.00	C
ATOM	2076	CD	GLU	A	148	66.051	75.363	144.519	0.00	0.00	C
ATOM	2077	OE1	GLU	A	148	65.896	75.839	145.662	0.00	0.00	O
ATOM	2078	OE2	GLU	A	148	65.229	74.510	144.121	0.00	0.00	O

ATOM	2079	HN	GLU	A	148	69.744	77.379	143.401	0.00	0.00	H
ATOM	2080	HCA	GLU	A	148	67.769	77.189	141.362	0.00	0.00	H
ATOM	2081	HCB	GLU	A	148	67.475	77.846	144.333	0.00	0.00	H
ATOM	2082	HCB	GLU	A	148	66.149	77.648	143.181	0.00	0.00	H
ATOM	2083	HCG	GLU	A	148	67.108	75.266	142.714	0.00	0.00	H
ATOM	2084	HCG	GLU	A	148	68.099	75.508	144.154	0.00	0.00	H
ATOM	2085	N	GLU	A	149	68.202	80.188	142.828	0.00	0.00	N
ATOM	2086	CA	GLU	A	149	68.022	81.599	142.591	0.00	0.00	C
ATOM	2087	C	GLU	A	149	68.773	82.095	141.408	0.00	0.00	C
ATOM	2088	O	GLU	A	149	68.224	82.939	140.663	0.00	0.00	O
ATOM	2089	CB	GLU	A	149	68.241	82.465	143.867	0.00	0.00	C
ATOM	2090	CG	GLU	A	149	69.676	82.532	144.460	0.00	0.00	C
ATOM	2091	CD	GLU	A	149	70.671	83.260	143.654	0.00	0.00	C
ATOM	2092	OE1	GLU	A	149	70.505	84.464	143.368	0.00	0.00	O
ATOM	2093	OE2	GLU	A	149	71.721	82.705	143.261	0.00	0.00	O
ATOM	2094	HN	GLU	A	149	68.543	79.909	143.691	0.00	0.00	H
ATOM	2095	HCA	GLU	A	149	66.958	81.715	142.355	0.00	0.00	H
ATOM	2096	HCB	GLU	A	149	67.903	83.486	143.660	0.00	0.00	H
ATOM	2097	HCB	GLU	A	149	67.583	82.069	144.646	0.00	0.00	H
ATOM	2098	HCG	GLU	A	149	69.623	83.044	145.422	0.00	0.00	H
ATOM	2099	HCG	GLU	A	149	70.023	81.521	144.651	0.00	0.00	H
ATOM	2100	N	ALA	A	150	69.975	81.578	141.057	0.00	0.00	N
ATOM	2101	CA	ALA	A	150	70.671	81.886	139.835	0.00	0.00	C
ATOM	2102	C	ALA	A	150	69.895	81.633	138.580	0.00	0.00	C
ATOM	2103	O	ALA	A	150	70.319	82.130	137.510	0.00	0.00	O
ATOM	2104	CB	ALA	A	150	72.011	81.111	139.832	0.00	0.00	C
ATOM	2105	HN	ALA	A	150	70.408	80.997	141.690	0.00	0.00	H
ATOM	2106	HCA	ALA	A	150	70.907	82.955	139.865	0.00	0.00	H
ATOM	2107	HCB	ALA	A	150	72.573	81.318	140.746	0.00	0.00	H
ATOM	2108	HCB	ALA	A	150	71.828	80.038	139.766	0.00	0.00	H
ATOM	2109	HCB	ALA	A	150	72.625	81.413	138.981	0.00	0.00	H
ATOM	2110	N	THR	A	151	68.747	80.910	138.576	0.00	0.00	N
ATOM	2111	CA	THR	A	151	67.845	80.681	137.474	0.00	0.00	C
ATOM	2112	C	THR	A	151	66.467	81.167	137.787	0.00	0.00	C
ATOM	2113	O	THR	A	151	65.548	80.996	136.948	0.00	0.00	O
ATOM	2114	CB	THR	A	151	67.819	79.154	137.142	0.00	0.00	C
ATOM	2115	CG2	THR	A	151	69.218	78.536	136.909	0.00	0.00	C
ATOM	2116	OG1	THR	A	151	67.152	78.384	138.146	0.00	0.00	O
ATOM	2117	HN	THR	A	151	68.468	80.497	139.391	0.00	0.00	H
ATOM	2118	HCA	THR	A	151	68.176	81.217	136.580	0.00	0.00	H
ATOM	2119	HCB	THR	A	151	67.255	79.013	136.214	0.00	0.00	H
ATOM	2120	HCG2	THR	A	151	69.814	78.567	137.822	0.00	0.00	H
ATOM	2121	HCG2	THR	A	151	69.117	77.494	136.601	0.00	0.00	H
ATOM	2122	HCG2	THR	A	151	69.748	79.080	136.125	0.00	0.00	H
ATOM	2123	HOG1	THR	A	151	67.367	78.767	139.010	0.00	0.00	H
ATOM	2124	N	ARG	A	152	66.190	81.794	138.957	0.00	0.00	N
ATOM	2125	CA	ARG	A	152	64.904	82.193	139.457	0.00	0.00	C
ATOM	2126	C	ARG	A	152	65.124	83.427	140.270	0.00	0.00	C
ATOM	2127	O	ARG	A	152	64.842	83.462	141.492	0.00	0.00	O
ATOM	2128	CB	ARG	A	152	64.226	81.030	140.259	0.00	0.00	C
ATOM	2129	CG	ARG	A	152	63.628	79.850	139.436	0.00	0.00	C
ATOM	2130	CD	ARG	A	152	62.416	80.245	138.554	0.00	0.00	C
ATOM	2131	NE	ARG	A	152	61.689	79.090	138.122	0.00	0.00	N
ATOM	2132	CZ	ARG	A	152	61.681	78.555	136.899	0.00	0.00	C
ATOM	2133	NH1	ARG	A	152	62.446	78.958	135.894	0.00	0.00	N
ATOM	2134	NH2	ARG	A	152	60.851	77.548	136.692	0.00	0.00	N
ATOM	2135	HN	ARG	A	152	66.928	82.036	139.518	0.00	0.00	H
ATOM	2136	HNE	ARG	A	152	61.115	78.649	138.763	0.00	0.00	H
ATOM	2137	HNH1	ARG	A	152	63.100	79.653	136.036	0.00	0.00	H
ATOM	2138	HNH1	ARG	A	152	62.363	78.537	135.029	0.00	0.00	H
ATOM	2139	HNH2	ARG	A	152	60.304	77.240	137.413	0.00	0.00	H
ATOM	2140	HNH2	ARG	A	152	60.803	77.123	135.827	0.00	0.00	H
ATOM	2141	HCA	ARG	A	152	64.250	82.483	138.635	0.00	0.00	H
ATOM	2142	HCB	ARG	A	152	64.957	80.620	140.962	0.00	0.00	H
ATOM	2143	HCB	ARG	A	152	63.409	81.440	140.862	0.00	0.00	H
ATOM	2144	HCD	ARG	A	152	61.726	80.862	139.136	0.00	0.00	H
ATOM	2145	HCD	ARG	A	152	62.757	80.850	137.711	0.00	0.00	H
ATOM	2146	HCG	ARG	A	152	64.402	79.397	138.812	0.00	0.00	H
ATOM	2147	HCG	ARG	A	152	63.301	79.086	140.147	0.00	0.00	H
ATOM	2148	N	SER	A	153	65.652	84.524	139.673	0.00	0.00	N
ATOM	2149	CA	SER	A	153	65.912	85.789	140.309	0.00	0.00	C
ATOM	2150	C	SER	A	153	64.741	86.677	140.083	0.00	0.00	C
ATOM	2151	O	SER	A	153	63.664	86.400	140.663	0.00	0.00	O
ATOM	2152	CB	SER	A	153	67.284	86.367	139.845	0.00	0.00	C
ATOM	2153	OG	SER	A	153	67.352	86.682	138.447	0.00	0.00	O
ATOM	2154	HN	SER	A	153	65.851	84.445	138.729	0.00	0.00	H
ATOM	2155	HCA	SER	A	153	66.001	85.664	141.393	0.00	0.00	H
ATOM	2156	HCB	SER	A	153	67.488	87.285	140.402	0.00	0.00	H
ATOM	2157	HCB	SER	A	153	68.082	85.658	140.083	0.00	0.00	H
ATOM	2158	HOG	SER	A	153	67.407	85.815	137.984	0.00	0.00	H

ATOM	2159	N	SER	A	154	64.802	87.696	139.195	0.00	0.00	N
ATOM	2160	CA	SER	A	154	63.747	88.607	138.815	0.00	0.00	C
ATOM	2161	C	SER	A	154	62.796	87.973	137.843	0.00	0.00	C
ATOM	2162	O	SER	A	154	62.398	88.537	136.794	0.00	0.00	O
ATOM	2163	CB	SER	A	154	64.412	89.926	138.326	0.00	0.00	C
ATOM	2164	OG	SER	A	154	63.430	90.892	137.956	0.00	0.00	O
ATOM	2165	HN	SER	A	154	65.652	87.723	138.747	0.00	0.00	H
ATOM	2166	HCA	SER	A	154	63.164	88.858	139.707	0.00	0.00	H
ATOM	2167	HCB	SER	A	154	65.037	90.351	139.116	0.00	0.00	H
ATOM	2168	HCB	SER	A	154	65.045	89.723	137.458	0.00	0.00	H
ATOM	2169	HOG	SER	A	154	62.878	90.323	137.398	0.00	0.00	H
ATOM	2170	N	TYR	A	155	62.351	86.738	138.154	0.00	0.00	N
ATOM	2171	CA	TYR	A	155	61.489	85.877	137.400	0.00	0.00	C
ATOM	2172	C	TYR	A	155	60.335	85.501	138.264	0.00	0.00	C
ATOM	2173	O	TYR	A	155	60.126	84.307	138.587	0.00	0.00	O
ATOM	2174	CB	TYR	A	155	62.304	84.659	136.863	0.00	0.00	C
ATOM	2175	CG	TYR	A	155	63.293	85.007	135.804	0.00	0.00	C
ATOM	2176	CD1	TYR	A	155	64.558	85.540	136.144	0.00	0.00	C
ATOM	2177	CD2	TYR	A	155	62.994	84.799	134.437	0.00	0.00	C
ATOM	2178	CE1	TYR	A	155	65.499	85.858	135.146	0.00	0.00	C
ATOM	2179	CE2	TYR	A	155	63.937	85.108	133.438	0.00	0.00	C
ATOM	2180	CZ	TYR	A	155	65.190	85.638	133.793	0.00	0.00	C
ATOM	2181	OH	TYR	A	155	66.098	85.941	132.839	0.00	0.00	O
ATOM	2182	HN	TYR	A	155	62.693	86.436	138.991	0.00	0.00	H
ATOM	2183	HCA	TYR	A	155	61.068	86.398	136.533	0.00	0.00	H
ATOM	2184	HCB	TYR	A	155	62.816	84.170	137.693	0.00	0.00	H
ATOM	2185	HCB	TYR	A	155	61.604	83.922	136.459	0.00	0.00	H
ATOM	2186	HCD1	TYR	A	155	64.803	85.699	137.121	0.00	0.00	H
ATOM	2187	HCD2	TYR	A	155	62.086	84.420	134.157	0.00	0.00	H
ATOM	2188	HCE1	TYR	A	155	66.408	86.248	135.404	0.00	0.00	H
ATOM	2189	HCE2	TYR	A	155	63.708	84.950	132.454	0.00	0.00	H
ATOM	2190	HOH	TYR	A	155	65.889	85.783	131.892	0.00	0.00	H
ATOM	2191	N	LEU	A	156	59.493	86.473	138.683	0.00	0.00	N
ATOM	2192	CA	LEU	A	156	58.220	86.274	139.314	0.00	0.00	C
ATOM	2193	C	LEU	A	156	57.213	87.057	138.554	0.00	0.00	C
ATOM	2194	O	LEU	A	156	57.296	88.309	138.539	0.00	0.00	O
ATOM	2195	CB	LEU	A	156	58.246	86.676	140.819	0.00	0.00	C
ATOM	2196	CG	LEU	A	156	56.912	86.365	141.585	0.00	0.00	C
ATOM	2197	CD1	LEU	A	156	56.815	84.878	142.024	0.00	0.00	C
ATOM	2198	CD2	LEU	A	156	56.719	87.302	142.805	0.00	0.00	C
ATOM	2199	HN	LEU	A	156	59.757	87.386	138.493	0.00	0.00	H
ATOM	2200	HCA	LEU	A	156	57.944	85.219	139.271	0.00	0.00	H
ATOM	2201	HCB	LEU	A	156	59.069	86.150	141.306	0.00	0.00	H
ATOM	2202	HCB	LEU	A	156	58.476	87.744	140.884	0.00	0.00	H
ATOM	2203	HCD1	LEU	A	156	57.620	84.629	142.717	0.00	0.00	H
ATOM	2204	HCD1	LEU	A	156	55.860	84.689	142.518	0.00	0.00	H
ATOM	2205	HCD1	LEU	A	156	56.881	84.214	141.161	0.00	0.00	H
ATOM	2206	HCD2	LEU	A	156	57.530	87.177	143.516	0.00	0.00	H
ATOM	2207	HCD2	LEU	A	156	56.696	88.344	142.482	0.00	0.00	H
ATOM	2208	HCD2	LEU	A	156	55.779	87.084	143.315	0.00	0.00	H
ATOM	2209	HCG	LEU	A	156	56.064	86.559	140.921	0.00	0.00	H
ATOM	2210	N	ASN	A	157	56.198	86.421	137.928	0.00	0.00	N
ATOM	2211	CA	ASN	A	157	55.058	87.070	137.340	0.00	0.00	C
ATOM	2212	C	ASN	A	157	53.897	86.934	138.256	0.00	0.00	C
ATOM	2213	O	ASN	A	157	53.535	85.776	138.562	0.00	0.00	O
ATOM	2214	CB	ASN	A	157	54.733	86.455	135.950	0.00	0.00	C
ATOM	2215	CG	ASN	A	157	55.771	86.638	134.929	0.00	0.00	C
ATOM	2216	ND2	ASN	A	157	56.098	85.662	134.079	0.00	0.00	N
ATOM	2217	OD1	ASN	A	157	56.304	87.755	134.752	0.00	0.00	O
ATOM	2218	HN	ASN	A	157	56.244	85.460	137.921	0.00	0.00	H
ATOM	2219	HND2	ASN	A	157	55.725	84.779	134.183	0.00	0.00	H
ATOM	2220	HND2	ASN	A	157	56.640	85.917	133.329	0.00	0.00	H
ATOM	2221	HCA	ASN	A	157	55.241	88.140	137.190	0.00	0.00	H
ATOM	2222	HCB	ASN	A	157	54.510	85.392	136.050	0.00	0.00	H
ATOM	2223	HCB	ASN	A	157	53.844	86.947	135.554	0.00	0.00	H
ATOM	2224	N	ILE	A	158	53.216	88.005	138.737	0.00	0.00	N
ATOM	2225	CA	ILE	A	158	51.981	87.933	139.485	0.00	0.00	C
ATOM	2226	C	ILE	A	158	50.887	88.557	138.692	0.00	0.00	C
ATOM	2227	O	ILE	A	158	51.056	89.692	138.177	0.00	0.00	O
ATOM	2228	CB	ILE	A	158	52.053	88.409	140.985	0.00	0.00	C
ATOM	2229	CG1	ILE	A	158	51.713	89.902	141.292	0.00	0.00	C
ATOM	2230	CG2	ILE	A	158	53.374	87.974	141.680	0.00	0.00	C
ATOM	2231	CD1	ILE	A	158	52.566	90.959	140.554	0.00	0.00	C
ATOM	2232	HN	ILE	A	158	53.559	88.886	138.526	0.00	0.00	H
ATOM	2233	HCA	ILE	A	158	51.713	86.882	139.574	0.00	0.00	H
ATOM	2234	HCB	ILE	A	158	51.265	87.852	141.511	0.00	0.00	H
ATOM	2235	HCD1	ILE	A	158	53.491	90.532	140.175	0.00	0.00	H
ATOM	2236	HCD1	ILE	A	158	52.012	91.373	139.715	0.00	0.00	H
ATOM	2237	HCD1	ILE	A	158	52.801	91.780	141.232	0.00	0.00	H
ATOM	2238	HCG1	ILE	A	158	50.659	90.082	141.063	0.00	0.00	H

ATOM	2239	HCG1	ILE	A	158	51.817	90.066	142.370	0.00	0.00		H
ATOM	2240	HCG2	ILE	A	158	53.547	86.906	141.536	0.00	0.00		H
ATOM	2241	HCG2	ILE	A	158	54.226	88.517	141.271	0.00	0.00		H
ATOM	2242	HCG2	ILE	A	158	53.325	88.164	142.755	0.00	0.00		H
ATOM	2243	N	VAL	A	159	49.717	87.891	138.544	0.00	0.00		N
ATOM	2244	CA	VAL	A	159	48.509	88.450	137.995	0.00	0.00		C
ATOM	2245	C	VAL	A	159	47.482	88.547	139.062	0.00	0.00		C
ATOM	2246	O	VAL	A	159	47.120	87.530	139.702	0.00	0.00		O
ATOM	2247	CB	VAL	A	159	47.983	87.711	136.715	0.00	0.00		C
ATOM	2248	CG1	VAL	A	159	46.473	87.984	136.441	0.00	0.00		C
ATOM	2249	CG2	VAL	A	159	48.782	88.149	135.453	0.00	0.00		C
ATOM	2250	HN	VAL	A	159	49.708	86.989	138.880	0.00	0.00		H
ATOM	2251	HCA	VAL	A	159	48.710	89.470	137.664	0.00	0.00		H
ATOM	2252	HCb	VAL	A	159	48.109	86.632	136.854	0.00	0.00		H
ATOM	2253	HCG1	VAL	A	159	46.266	89.055	136.476	0.00	0.00		H
ATOM	2254	HCG1	VAL	A	159	46.179	87.624	135.465	0.00	0.00		H
ATOM	2255	HCG1	VAL	A	159	45.846	87.478	137.177	0.00	0.00		H
ATOM	2256	HCG2	VAL	A	159	49.854	88.043	135.614	0.00	0.00		H
ATOM	2257	HCG2	VAL	A	159	48.498	87.545	134.592	0.00	0.00		H
ATOM	2258	HCG2	VAL	A	159	48.575	89.191	135.209	0.00	0.00		H
ATOM	2259	N	GLY	A	160	46.877	89.745	139.217	0.00	0.00		N
ATOM	2260	CA	GLY	A	160	45.651	89.990	139.895	0.00	0.00		C
ATOM	2261	C	GLY	A	160	44.459	89.706	139.064	0.00	0.00		C
ATOM	2262	O	GLY	A	160	44.284	90.348	137.998	0.00	0.00		O
ATOM	2263	HN	GLY	A	160	47.287	90.480	138.760	0.00	0.00		H
ATOM	2264	HCA	GLY	A	160	45.621	89.429	140.833	0.00	0.00		H
ATOM	2265	HCA	GLY	A	160	45.633	91.052	140.133	0.00	0.00		H
ATOM	2266	N	LEU	A	161	43.564	88.779	139.475	0.00	0.00		N
ATOM	2267	CA	LEU	A	161	42.285	88.495	138.882	0.00	0.00		C
ATOM	2268	C	LEU	A	161	41.240	88.895	139.872	0.00	0.00		C
ATOM	2269	O	LEU	A	161	41.280	88.462	141.051	0.00	0.00		O
ATOM	2270	CB	LEU	A	161	42.281	86.995	138.462	0.00	0.00		C
ATOM	2271	CG	LEU	A	161	41.281	86.610	137.331	0.00	0.00		C
ATOM	2272	CD1	LEU	A	161	41.589	85.190	136.789	0.00	0.00		C
ATOM	2273	CD2	LEU	A	161	39.793	86.720	137.764	0.00	0.00		C
ATOM	2274	HN	LEU	A	161	43.805	88.245	140.235	0.00	0.00		H
ATOM	2275	HCA	LEU	A	161	42.147	89.095	137.976	0.00	0.00		H
ATOM	2276	HCb	LEU	A	161	43.285	86.748	138.099	0.00	0.00		H
ATOM	2277	HCb	LEU	A	161	42.102	86.371	139.334	0.00	0.00		H
ATOM	2278	HCD1	LEU	A	161	41.556	84.453	137.589	0.00	0.00		H
ATOM	2279	HCD1	LEU	A	161	40.867	84.905	136.023	0.00	0.00		H
ATOM	2280	HCD1	LEU	A	161	42.584	85.159	136.343	0.00	0.00		H
ATOM	2281	HCD2	LEU	A	161	39.511	87.762	137.908	0.00	0.00		H
ATOM	2282	HCD2	LEU	A	161	39.131	86.307	137.001	0.00	0.00		H
ATOM	2283	HCD2	LEU	A	161	39.619	86.178	138.692	0.00	0.00		H
ATOM	2284	HCG	LEU	A	161	41.449	87.302	136.504	0.00	0.00		H
ATOM	2285	N	VAL	A	162	40.300	89.810	139.535	0.00	0.00		N
ATOM	2286	CA	VAL	A	162	39.567	90.626	140.468	0.00	0.00		C
ATOM	2287	C	VAL	A	162	38.306	89.986	140.953	0.00	0.00		C
ATOM	2288	O	VAL	A	162	37.289	89.951	140.219	0.00	0.00		O
ATOM	2289	CB	VAL	A	162	39.338	92.054	139.865	0.00	0.00		C
ATOM	2290	CG1	VAL	A	162	38.861	93.044	140.959	0.00	0.00		C
ATOM	2291	CG2	VAL	A	162	40.600	92.654	139.181	0.00	0.00		C
ATOM	2292	HN	VAL	A	162	40.181	89.996	138.592	0.00	0.00		H
ATOM	2293	HCA	VAL	A	162	40.217	90.782	141.331	0.00	0.00		H
ATOM	2294	HCb	VAL	A	162	38.558	91.988	139.098	0.00	0.00		H
ATOM	2295	HCG1	VAL	A	162	37.963	92.677	141.458	0.00	0.00		H
ATOM	2296	HCG1	VAL	A	162	39.632	93.196	141.716	0.00	0.00		H
ATOM	2297	HCG1	VAL	A	162	38.636	94.003	140.497	0.00	0.00		H
ATOM	2298	HCG2	VAL	A	162	40.898	92.054	138.320	0.00	0.00		H
ATOM	2299	HCG2	VAL	A	162	40.401	93.666	138.820	0.00	0.00		H
ATOM	2300	HCG2	VAL	A	162	41.433	92.692	139.886	0.00	0.00		H
ATOM	2301	N	GLY	A	163	38.246	89.506	142.218	0.00	0.00		N
ATOM	2302	CA	GLY	A	163	37.130	88.854	142.850	0.00	0.00		C
ATOM	2303	C	GLY	A	163	36.474	89.713	143.853	0.00	0.00		C
ATOM	2304	O	GLY	A	163	37.164	90.124	144.814	0.00	0.00		O
ATOM	2305	HN	GLY	A	163	39.041	89.623	142.734	0.00	0.00		H
ATOM	2306	HCA	GLY	A	163	36.393	88.539	142.119	0.00	0.00		H
ATOM	2307	HCA	GLY	A	163	37.495	87.954	143.348	0.00	0.00		H
ATOM	2308	N	SER	A	164	35.160	90.034	143.752	0.00	0.00		N
ATOM	2309	CA	SER	A	164	34.435	90.929	144.617	0.00	0.00		C
ATOM	2310	C	SER	A	164	32.979	90.994	144.296	0.00	0.00		C
ATOM	2311	O	SER	A	164	32.513	90.800	143.145	0.00	0.00		O
ATOM	2312	CB	SER	A	164	35.050	92.360	144.637	0.00	0.00		C
ATOM	2313	OG	SER	A	164	34.228	93.343	145.271	0.00	0.00		O
ATOM	2314	HN	SER	A	164	34.654	89.590	143.071	0.00	0.00		H
ATOM	2315	HCA	SER	A	164	34.522	90.517	145.628	0.00	0.00		H
ATOM	2316	HCb	SER	A	164	36.003	92.343	145.170	0.00	0.00		H
ATOM	2317	HCb	SER	A	164	35.247	92.685	143.620	0.00	0.00		H
ATOM	2318	HOG	SER	A	164	34.836	94.090	145.415	0.00	0.00		H

ATOM	2319	N	ILE	A	165	32.157	91.328	145.313	0.00	0.00		N
ATOM	2320	CA	ILE	A	165	30.747	91.567	145.269	0.00	0.00		C
ATOM	2321	C	ILE	A	165	30.534	93.029	145.456	0.00	0.00		C
ATOM	2322	O	ILE	A	165	29.830	93.648	144.623	0.00	0.00		O
ATOM	2323	CB	ILE	A	165	29.952	90.623	146.233	0.00	0.00		C
ATOM	2324	CG1	ILE	A	165	30.192	90.808	147.764	0.00	0.00		C
ATOM	2325	CG2	ILE	A	165	30.093	89.130	145.807	0.00	0.00		C
ATOM	2326	CD1	ILE	A	165	31.603	90.470	148.304	0.00	0.00		C
ATOM	2327	HN	ILE	A	165	32.594	91.473	146.161	0.00	0.00		H
ATOM	2328	HCA	ILE	A	165	30.377	91.336	144.269	0.00	0.00		H
ATOM	2329	HCB	ILE	A	165	28.896	90.869	146.079	0.00	0.00		H
ATOM	2330	HCD1	ILE	A	165	31.949	89.511	147.925	0.00	0.00		H
ATOM	2331	HCD1	ILE	A	165	32.324	91.239	148.036	0.00	0.00		H
ATOM	2332	HCD1	ILE	A	165	31.576	90.421	149.392	0.00	0.00		H
ATOM	2333	HCG1	ILE	A	165	29.950	91.836	148.046	0.00	0.00		H
ATOM	2334	HCG1	ILE	A	165	29.477	90.168	148.290	0.00	0.00		H
ATOM	2335	HCG2	ILE	A	165	29.753	88.993	144.780	0.00	0.00		H
ATOM	2336	HCG2	ILE	A	165	31.129	88.795	145.860	0.00	0.00		H
ATOM	2337	HCG2	ILE	A	165	29.486	88.488	146.446	0.00	0.00		H
ATOM	2338	N	ASP	A	166	31.159	93.716	146.445	0.00	0.00		N
ATOM	2339	CA	ASP	A	166	31.275	95.140	146.603	0.00	0.00		C
ATOM	2340	C	ASP	A	166	31.511	95.885	145.335	0.00	0.00		C
ATOM	2341	O	ASP	A	166	30.855	96.930	145.117	0.00	0.00		O
ATOM	2342	CB	ASP	A	166	32.382	95.413	147.664	0.00	0.00		C
ATOM	2343	CG	ASP	A	166	32.062	94.832	148.982	0.00	0.00		C
ATOM	2344	OD1	ASP	A	166	31.656	95.551	149.923	0.00	0.00		O
ATOM	2345	OD2	ASP	A	166	32.152	93.598	149.167	0.00	0.00		O
ATOM	2346	HN	ASP	A	166	31.578	93.226	147.163	0.00	0.00		H
ATOM	2347	HCA	ASP	A	166	30.350	95.516	147.035	0.00	0.00		H
ATOM	2348	HCB	ASP	A	166	33.338	95.004	147.332	0.00	0.00		H
ATOM	2349	HCB	ASP	A	166	32.509	96.489	147.786	0.00	0.00		H
ATOM	2350	N	ASN	A	167	32.414	95.442	144.428	0.00	0.00		N
ATOM	2351	CA	ASN	A	167	32.724	96.044	143.153	0.00	0.00		C
ATOM	2352	C	ASN	A	167	33.400	97.353	143.370	0.00	0.00		C
ATOM	2353	O	ASN	A	167	33.048	98.425	142.819	0.00	0.00		O
ATOM	2354	CB	ASN	A	167	31.505	96.043	142.187	0.00	0.00		C
ATOM	2355	CG	ASN	A	167	31.863	96.065	140.753	0.00	0.00		C
ATOM	2356	ND2	ASN	A	167	32.272	97.196	140.169	0.00	0.00		N
ATOM	2357	OD1	ASN	A	167	31.810	95.019	140.067	0.00	0.00		O
ATOM	2358	HN	ASN	A	167	32.943	94.687	144.692	0.00	0.00		H
ATOM	2359	HND2	ASN	A	167	32.410	97.952	140.751	0.00	0.00		H
ATOM	2360	HND2	ASN	A	167	32.442	97.249	139.223	0.00	0.00		H
ATOM	2361	HCA	ASN	A	167	33.470	95.383	142.717	0.00	0.00		H
ATOM	2362	HCB	ASN	A	167	30.912	95.149	142.386	0.00	0.00		H
ATOM	2363	HCB	ASN	A	167	30.868	96.899	142.405	0.00	0.00		H
ATOM	2364	N	ASP	A	168	34.427	97.291	144.235	0.00	0.00		N
ATOM	2365	CA	ASP	A	168	35.192	98.292	144.885	0.00	0.00		C
ATOM	2366	C	ASP	A	168	36.435	98.555	144.126	0.00	0.00		C
ATOM	2367	O	ASP	A	168	36.699	99.732	143.781	0.00	0.00		O
ATOM	2368	CB	ASP	A	168	35.474	97.750	146.331	0.00	0.00		C
ATOM	2369	CG	ASP	A	168	35.893	96.331	146.511	0.00	0.00		C
ATOM	2370	OD1	ASP	A	168	36.061	95.511	145.573	0.00	0.00		O
ATOM	2371	OD2	ASP	A	168	36.001	95.885	147.671	0.00	0.00		O
ATOM	2372	HN	ASP	A	168	34.710	96.422	144.514	0.00	0.00		H
ATOM	2373	HCA	ASP	A	168	34.615	99.219	144.961	0.00	0.00		H
ATOM	2374	HCB	ASP	A	168	36.231	98.378	146.806	0.00	0.00		H
ATOM	2375	HCB	ASP	A	168	34.556	97.864	146.908	0.00	0.00		H
ATOM	2376	N	PHE	A	169	37.251	97.514	143.841	0.00	0.00		N
ATOM	2377	CA	PHE	A	169	38.495	97.571	143.131	0.00	0.00		C
ATOM	2378	C	PHE	A	169	38.465	98.450	141.924	0.00	0.00		C
ATOM	2379	O	PHE	A	169	37.962	98.053	140.841	0.00	0.00		O
ATOM	2380	CB	PHE	A	169	39.035	96.156	142.783	0.00	0.00		C
ATOM	2381	CG	PHE	A	169	40.477	96.223	142.413	0.00	0.00		C
ATOM	2382	CD1	PHE	A	169	41.455	96.319	143.428	0.00	0.00		C
ATOM	2383	CD2	PHE	A	169	40.896	96.273	141.064	0.00	0.00		C
ATOM	2384	CE1	PHE	A	169	42.818	96.455	143.115	0.00	0.00		C
ATOM	2385	CE2	PHE	A	169	42.258	96.430	140.748	0.00	0.00		C
ATOM	2386	CZ	PHE	A	169	43.220	96.507	141.772	0.00	0.00		C
ATOM	2387	HN	PHE	A	169	36.988	96.704	144.289	0.00	0.00		H
ATOM	2388	HCA	PHE	A	169	39.189	97.994	143.855	0.00	0.00		H
ATOM	2389	HCB	PHE	A	169	38.911	95.478	143.631	0.00	0.00		H
ATOM	2390	HCB	PHE	A	169	38.433	95.745	141.974	0.00	0.00		H
ATOM	2391	HCD1	PHE	A	169	41.176	96.295	144.407	0.00	0.00		H
ATOM	2392	HCD2	PHE	A	169	40.210	96.218	140.307	0.00	0.00		H
ATOM	2393	HCE1	PHE	A	169	43.512	96.516	143.863	0.00	0.00		H
ATOM	2394	HCE2	PHE	A	169	42.547	96.502	139.772	0.00	0.00		H
ATOM	2395	HCZ	PHE	A	169	44.211	96.605	141.547	0.00	0.00		H
ATOM	2396	N	CYS	A	170	38.980	99.696	142.023	0.00	0.00		N
ATOM	2397	CA	CYS	A	170	38.981	100.657	140.955	0.00	0.00		C
ATOM	2398	C	CYS	A	170	40.023	100.300	139.952	0.00	0.00		C

ATOM	2399	O	CYS	A	170	41.240	100.400	140.234	0.00	0.00	O
ATOM	2400	CB	CYS	A	170	39.120	102.088	141.531	0.00	0.00	C
ATOM	2401	SG	CYS	A	170	37.638	102.592	142.443	0.00	0.00	S
ATOM	2402	HN	CYS	A	170	39.353	99.925	142.882	0.00	0.00	H
ATOM	2403	HCA	CYS	A	170	38.003	100.625	140.457	0.00	0.00	H
ATOM	2404	HCB	CYS	A	170	39.983	102.135	142.195	0.00	0.00	H
ATOM	2405	HCB	CYS	A	170	39.270	102.806	140.722	0.00	0.00	H
ATOM	2406	HSG	CYS	A	170	37.468	101.377	143.007	0.00	0.00	H
ATOM	2407	N	GLY	A	171	39.631	99.805	138.754	0.00	0.00	N
ATOM	2408	CA	GLY	A	171	40.486	99.286	137.724	0.00	0.00	C
ATOM	2409	C	GLY	A	171	39.755	98.412	136.778	0.00	0.00	C
ATOM	2410	O	GLY	A	171	40.185	98.291	135.605	0.00	0.00	O
ATOM	2411	HN	GLY	A	171	38.675	99.795	138.587	0.00	0.00	H
ATOM	2412	HCA	GLY	A	171	40.911	100.130	137.175	0.00	0.00	H
ATOM	2413	HCA	GLY	A	171	41.305	98.705	138.152	0.00	0.00	H
ATOM	2414	N	THR	A	172	38.638	97.759	137.182	0.00	0.00	N
ATOM	2415	CA	THR	A	172	37.720	97.024	136.344	0.00	0.00	C
ATOM	2416	C	THR	A	172	36.376	97.646	136.391	0.00	0.00	C
ATOM	2417	O	THR	A	172	35.997	98.203	137.451	0.00	0.00	O
ATOM	2418	CB	THR	A	172	37.669	95.516	136.755	0.00	0.00	C
ATOM	2419	CG2	THR	A	172	36.928	95.208	138.067	0.00	0.00	C
ATOM	2420	OG1	THR	A	172	37.144	94.715	135.686	0.00	0.00	O
ATOM	2421	HN	THR	A	172	38.409	97.832	138.123	0.00	0.00	H
ATOM	2422	HCA	THR	A	172	38.046	97.073	135.301	0.00	0.00	H
ATOM	2423	HCB	THR	A	172	38.691	95.172	136.929	0.00	0.00	H
ATOM	2424	HCG2	THR	A	172	37.374	95.765	138.893	0.00	0.00	H
ATOM	2425	HCG2	THR	A	172	35.874	95.472	137.996	0.00	0.00	H
ATOM	2426	HCG2	THR	A	172	37.013	94.141	138.271	0.00	0.00	H
ATOM	2427	HOG1	THR	A	172	36.333	94.280	136.010	0.00	0.00	H
ATOM	2428	N	ASP	A	173	35.542	97.565	135.329	0.00	0.00	N
ATOM	2429	CA	ASP	A	173	34.155	97.947	135.358	0.00	0.00	C
ATOM	2430	C	ASP	A	173	33.392	97.019	136.247	0.00	0.00	C
ATOM	2431	O	ASP	A	173	32.793	97.436	137.271	0.00	0.00	O
ATOM	2432	CB	ASP	A	173	33.602	97.957	133.901	0.00	0.00	C
ATOM	2433	CG	ASP	A	173	34.261	98.890	132.969	0.00	0.00	C
ATOM	2434	OD1	ASP	A	173	35.214	99.631	133.288	0.00	0.00	O
ATOM	2435	OD2	ASP	A	173	33.875	98.950	131.783	0.00	0.00	O
ATOM	2436	HN	ASP	A	173	35.899	97.214	134.509	0.00	0.00	H
ATOM	2437	HCA	ASP	A	173	34.068	98.965	135.755	0.00	0.00	H
ATOM	2438	HCB	ASP	A	173	33.685	96.958	133.467	0.00	0.00	H
ATOM	2439	HCB	ASP	A	173	32.542	98.223	133.927	0.00	0.00	H
ATOM	2440	N	MET	A	174	33.410	95.700	135.949	0.00	0.00	N
ATOM	2441	CA	MET	A	174	32.755	94.643	136.660	0.00	0.00	C
ATOM	2442	C	MET	A	174	33.778	93.730	137.240	0.00	0.00	C
ATOM	2443	O	MET	A	174	34.726	93.312	136.528	0.00	0.00	O
ATOM	2444	CB	MET	A	174	31.789	93.894	135.697	0.00	0.00	C
ATOM	2445	CG	MET	A	174	30.618	94.763	135.154	0.00	0.00	C
ATOM	2446	SD	MET	A	174	29.373	95.174	136.409	0.00	0.00	S
ATOM	2447	CE	MET	A	174	28.256	93.772	136.185	0.00	0.00	C
ATOM	2448	HN	MET	A	174	33.927	95.444	135.171	0.00	0.00	H
ATOM	2449	HCA	MET	A	174	32.147	95.043	137.475	0.00	0.00	H
ATOM	2450	HCB	MET	A	174	32.360	93.513	134.845	0.00	0.00	H
ATOM	2451	HCB	MET	A	174	31.371	93.028	136.219	0.00	0.00	H
ATOM	2452	HCE	MET	A	174	27.825	93.787	135.183	0.00	0.00	H
ATOM	2453	HCE	MET	A	174	28.791	92.837	136.334	0.00	0.00	H
ATOM	2454	HCE	MET	A	174	27.450	93.838	136.916	0.00	0.00	H
ATOM	2455	HCG	MET	A	174	31.012	95.703	134.763	0.00	0.00	H
ATOM	2456	HCG	MET	A	174	30.137	94.256	134.316	0.00	0.00	H
ATOM	2457	N	THR	A	175	33.691	93.386	138.544	0.00	0.00	N
ATOM	2458	CA	THR	A	175	34.461	92.365	139.225	0.00	0.00	C
ATOM	2459	C	THR	A	175	33.849	91.006	139.104	0.00	0.00	C
ATOM	2460	O	THR	A	175	32.712	90.913	138.592	0.00	0.00	O
ATOM	2461	CB	THR	A	175	34.602	92.782	140.721	0.00	0.00	C
ATOM	2462	CG2	THR	A	175	35.315	94.137	140.934	0.00	0.00	C
ATOM	2463	OG1	THR	A	175	33.332	92.895	141.357	0.00	0.00	O
ATOM	2464	HN	THR	A	175	33.026	93.854	139.050	0.00	0.00	H
ATOM	2465	HCA	THR	A	175	35.461	92.298	138.790	0.00	0.00	H
ATOM	2466	HCB	THR	A	175	35.174	92.011	141.247	0.00	0.00	H
ATOM	2467	HCG2	THR	A	175	34.752	94.956	140.484	0.00	0.00	H
ATOM	2468	HCG2	THR	A	175	35.446	94.345	141.994	0.00	0.00	H
ATOM	2469	HCG2	THR	A	175	36.297	94.108	140.489	0.00	0.00	H
ATOM	2470	HOG1	THR	A	175	32.844	93.598	140.904	0.00	0.00	H
ATOM	2471	N	ILE	A	176	34.472	89.864	139.507	0.00	0.00	N
ATOM	2472	CA	ILE	A	176	33.830	88.563	139.568	0.00	0.00	C
ATOM	2473	C	ILE	A	176	32.977	88.487	140.788	0.00	0.00	C
ATOM	2474	O	ILE	A	176	33.563	88.548	141.892	0.00	0.00	O
ATOM	2475	CB	ILE	A	176	34.860	87.371	139.534	0.00	0.00	C
ATOM	2476	CG1	ILE	A	176	35.887	87.421	138.362	0.00	0.00	C
ATOM	2477	CG2	ILE	A	176	34.158	85.982	139.581	0.00	0.00	C
ATOM	2478	CD1	ILE	A	176	35.248	87.560	136.972	0.00	0.00	C



ATOM	2479	HN	ILE	A	176	35.386	89.920	139.789	0.00	0.00	H
ATOM	2480	HCA	ILE	A	176	33.180	88.444	138.696	0.00	0.00	H
ATOM	2481	HCB	ILE	A	176	35.462	87.419	140.441	0.00	0.00	H
ATOM	2482	HCD1	ILE	A	176	34.478	86.807	136.807	0.00	0.00	H
ATOM	2483	HCD1	ILE	A	176	34.807	88.549	136.881	0.00	0.00	H
ATOM	2484	HCD1	ILE	A	176	36.012	87.452	136.209	0.00	0.00	H
ATOM	2485	HCG1	ILE	A	176	36.563	88.265	138.501	0.00	0.00	H
ATOM	2486	HCG1	ILE	A	176	36.509	86.521	138.375	0.00	0.00	H
ATOM	2487	HCG2	ILE	A	176	33.631	85.847	140.527	0.00	0.00	H
ATOM	2488	HCG2	ILE	A	176	33.436	85.882	138.768	0.00	0.00	H
ATOM	2489	HCG2	ILE	A	176	34.894	85.182	139.499	0.00	0.00	H
ATOM	2490	N	GLY	A	177	31.635	88.308	140.719	0.00	0.00	N
ATOM	2491	CA	GLY	A	177	30.733	88.096	141.822	0.00	0.00	C
ATOM	2492	C	GLY	A	177	29.600	89.037	141.792	0.00	0.00	C
ATOM	2493	O	GLY	A	177	28.421	88.615	141.779	0.00	0.00	O
ATOM	2494	HN	GLY	A	177	31.246	88.326	139.842	0.00	0.00	H
ATOM	2495	HCA	GLY	A	177	30.355	87.075	141.758	0.00	0.00	H
ATOM	2496	HCA	GLY	A	177	31.225	88.209	142.786	0.00	0.00	H
ATOM	2497	N	THR	A	178	29.869	90.356	141.838	0.00	0.00	N
ATOM	2498	CA	THR	A	178	28.986	91.467	141.549	0.00	0.00	C
ATOM	2499	C	THR	A	178	27.663	91.190	140.904	0.00	0.00	C
ATOM	2500	O	THR	A	178	26.616	91.552	141.495	0.00	0.00	O
ATOM	2501	CB	THR	A	178	29.815	92.519	140.750	0.00	0.00	C
ATOM	2502	CG2	THR	A	178	29.993	92.241	139.243	0.00	0.00	C
ATOM	2503	OG1	THR	A	178	29.283	93.833	140.850	0.00	0.00	O
ATOM	2504	HN	THR	A	178	30.767	90.560	142.126	0.00	0.00	H
ATOM	2505	HCA	THR	A	178	28.780	91.927	142.518	0.00	0.00	H
ATOM	2506	HCB	THR	A	178	30.808	92.563	141.207	0.00	0.00	H
ATOM	2507	HCG2	THR	A	178	30.256	91.197	139.075	0.00	0.00	H
ATOM	2508	HCG2	THR	A	178	29.068	92.458	138.712	0.00	0.00	H
ATOM	2509	HCG2	THR	A	178	30.777	92.874	138.828	0.00	0.00	H
ATOM	2510	HOG1	THR	A	178	30.051	94.341	140.550	0.00	0.00	H
ATOM	2511	N	ASP	A	179	27.550	90.534	139.719	0.00	0.00	N
ATOM	2512	CA	ASP	A	179	26.333	90.384	138.969	0.00	0.00	C
ATOM	2513	C	ASP	A	179	25.506	89.301	139.555	0.00	0.00	C
ATOM	2514	O	ASP	A	179	24.288	89.481	139.760	0.00	0.00	O
ATOM	2515	CB	ASP	A	179	26.647	90.143	137.468	0.00	0.00	C
ATOM	2516	CG	ASP	A	179	25.428	90.159	136.644	0.00	0.00	C
ATOM	2517	OD1	ASP	A	179	24.735	91.197	136.556	0.00	0.00	O
ATOM	2518	OD2	ASP	A	179	25.038	89.122	136.069	0.00	0.00	O
ATOM	2519	HN	ASP	A	179	28.329	90.070	139.372	0.00	0.00	H
ATOM	2520	HCA	ASP	A	179	25.778	91.325	139.025	0.00	0.00	H
ATOM	2521	HCB	ASP	A	179	27.307	90.927	137.099	0.00	0.00	H
ATOM	2522	HCB	ASP	A	179	27.162	89.189	137.340	0.00	0.00	H
ATOM	2523	N	SER	A	180	26.067	88.132	139.916	0.00	0.00	N
ATOM	2524	CA	SER	A	180	25.438	87.088	140.678	0.00	0.00	C
ATOM	2525	C	SER	A	180	24.945	87.552	142.007	0.00	0.00	C
ATOM	2526	O	SER	A	180	23.808	87.215	142.415	0.00	0.00	O
ATOM	2527	CB	SER	A	180	26.456	85.951	140.882	0.00	0.00	C
ATOM	2528	OG	SER	A	180	27.077	85.578	139.654	0.00	0.00	O
ATOM	2529	HN	SER	A	180	26.976	88.015	139.633	0.00	0.00	H
ATOM	2530	HCA	SER	A	180	24.604	86.689	140.095	0.00	0.00	H
ATOM	2531	HCB	SER	A	180	27.230	86.284	141.574	0.00	0.00	H
ATOM	2532	HCB	SER	A	180	25.959	85.075	141.307	0.00	0.00	H
ATOM	2533	HOG	SER	A	180	27.661	86.323	139.431	0.00	0.00	H
ATOM	2534	N	ALA	A	181	25.721	88.351	142.775	0.00	0.00	N
ATOM	2535	CA	ALA	A	181	25.304	88.989	143.993	0.00	0.00	C
ATOM	2536	C	ALA	A	181	24.124	89.872	143.783	0.00	0.00	C
ATOM	2537	O	ALA	A	181	23.093	89.716	144.485	0.00	0.00	O
ATOM	2538	CB	ALA	A	181	26.503	89.760	144.583	0.00	0.00	C
ATOM	2539	HN	ALA	A	181	26.614	88.500	142.457	0.00	0.00	H
ATOM	2540	HCA	ALA	A	181	25.031	88.206	144.707	0.00	0.00	H
ATOM	2541	HCB	ALA	A	181	27.338	89.076	144.729	0.00	0.00	H
ATOM	2542	HCB	ALA	A	181	26.825	90.560	143.917	0.00	0.00	H
ATOM	2543	HCB	ALA	A	181	26.236	90.189	145.550	0.00	0.00	H
ATOM	2544	N	LEU	A	182	24.128	90.788	142.784	0.00	0.00	N
ATOM	2545	CA	LEU	A	182	22.971	91.510	142.342	0.00	0.00	C
ATOM	2546	C	LEU	A	182	21.820	90.614	142.035	0.00	0.00	C
ATOM	2547	O	LEU	A	182	20.729	90.923	142.553	0.00	0.00	O
ATOM	2548	CB	LEU	A	182	23.324	92.440	141.147	0.00	0.00	C
ATOM	2549	CG	LEU	A	182	24.061	93.754	141.552	0.00	0.00	C
ATOM	2550	CD1	LEU	A	182	24.835	94.346	140.346	0.00	0.00	C
ATOM	2551	CD2	LEU	A	182	23.062	94.794	142.129	0.00	0.00	C
ATOM	2552	HN	LEU	A	182	24.959	90.970	142.338	0.00	0.00	H
ATOM	2553	HCA	LEU	A	182	22.671	92.144	143.181	0.00	0.00	H
ATOM	2554	HCB	LEU	A	182	23.933	91.877	140.442	0.00	0.00	H
ATOM	2555	HCB	LEU	A	182	22.415	92.715	140.611	0.00	0.00	H
ATOM	2556	HCD1	LEU	A	182	24.158	94.535	139.511	0.00	0.00	H
ATOM	2557	HCD1	LEU	A	182	25.329	95.278	140.628	0.00	0.00	H
ATOM	2558	HCD1	LEU	A	182	25.608	93.653	140.010	0.00	0.00	H

ATOM	2559	HCD2	LEU	A	182	22.243	94.982	141.432	0.00	0.00	H
ATOM	2560	HCD2	LEU	A	182	22.645	94.447	143.074	0.00	0.00	H
ATOM	2561	HCD2	LEU	A	182	23.564	95.736	142.322	0.00	0.00	H
ATOM	2562	HCG	LEU	A	182	24.804	93.527	142.325	0.00	0.00	H
ATOM	2563	N	HIS	A	183	21.895	89.487	141.283	0.00	0.00	N
ATOM	2564	CA	HIS	A	183	20.841	88.506	141.140	0.00	0.00	C
ATOM	2565	C	HIS	A	183	20.321	88.052	142.462	0.00	0.00	C
ATOM	2566	O	HIS	A	183	19.101	88.213	142.670	0.00	0.00	O
ATOM	2567	CB	HIS	A	183	21.217	87.267	140.271	0.00	0.00	C
ATOM	2568	CG	HIS	A	183	21.286	87.552	138.826	0.00	0.00	C
ATOM	2569	CD2	HIS	A	183	20.426	87.098	137.831	0.00	0.00	C
ATOM	2570	ND1	HIS	A	183	22.208	88.296	138.208	0.00	0.00	N
ATOM	2571	CE1	HIS	A	183	21.942	88.319	136.894	0.00	0.00	C
ATOM	2572	NE2	HIS	A	183	20.843	87.583	136.654	0.00	0.00	N
ATOM	2573	HN	HIS	A	183	22.705	89.379	140.794	0.00	0.00	H
ATOM	2574	HND1	HIS	A	183	22.937	88.728	138.647	0.00	0.00	H
ATOM	2575	HCA	HIS	A	183	20.022	89.011	140.615	0.00	0.00	H
ATOM	2576	HCB	HIS	A	183	22.168	86.848	140.586	0.00	0.00	H
ATOM	2577	HCB	HIS	A	183	20.464	86.485	140.417	0.00	0.00	H
ATOM	2578	HCD2	HIS	A	183	19.610	86.497	137.968	0.00	0.00	H
ATOM	2579	HCE1	HIS	A	183	22.481	88.817	136.183	0.00	0.00	H
ATOM	2580	N	ARG	A	184	21.105	87.537	143.442	0.00	0.00	N
ATOM	2581	CA	ARG	A	184	20.634	87.165	144.765	0.00	0.00	C
ATOM	2582	C	ARG	A	184	19.823	88.243	145.422	0.00	0.00	C
ATOM	2583	O	ARG	A	184	18.678	88.009	145.893	0.00	0.00	O
ATOM	2584	CB	ARG	A	184	21.803	86.738	145.707	0.00	0.00	C
ATOM	2585	CG	ARG	A	184	22.639	85.492	145.291	0.00	0.00	C
ATOM	2586	CD	ARG	A	184	21.855	84.155	145.180	0.00	0.00	C
ATOM	2587	NE	ARG	A	184	21.349	83.931	143.866	0.00	0.00	N
ATOM	2588	CZ	ARG	A	184	22.023	83.454	142.813	0.00	0.00	C
ATOM	2589	NH1	ARG	A	184	23.292	83.040	142.826	0.00	0.00	N
ATOM	2590	NH2	ARG	A	184	21.344	83.384	141.681	0.00	0.00	N
ATOM	2591	HN	ARG	A	184	22.026	87.413	143.203	0.00	0.00	H
ATOM	2592	HNE	ARG	A	184	20.420	84.133	143.721	0.00	0.00	H
ATOM	2593	HNH1	ARG	A	184	23.819	83.104	143.623	0.00	0.00	H
ATOM	2594	HNH1	ARG	A	184	23.693	82.651	142.045	0.00	0.00	H
ATOM	2595	HNH2	ARG	A	184	20.445	83.725	141.657	0.00	0.00	H
ATOM	2596	HNH2	ARG	A	184	21.756	83.016	140.891	0.00	0.00	H
ATOM	2597	HCA	ARG	A	184	19.980	86.301	144.649	0.00	0.00	H
ATOM	2598	HCB	ARG	A	184	22.492	87.578	145.815	0.00	0.00	H
ATOM	2599	HCB	ARG	A	184	21.394	86.537	146.703	0.00	0.00	H
ATOM	2600	HCD	ARG	A	184	22.490	83.317	145.476	0.00	0.00	H
ATOM	2601	HCD	ARG	A	184	21.014	84.159	145.878	0.00	0.00	H
ATOM	2602	HCG	ARG	A	184	23.160	85.693	144.355	0.00	0.00	H
ATOM	2603	HCG	ARG	A	184	23.413	85.360	146.053	0.00	0.00	H
ATOM	2604	N	ILE	A	185	20.319	89.501	145.486	0.00	0.00	N
ATOM	2605	CA	ILE	A	185	19.612	90.627	146.050	0.00	0.00	C
ATOM	2606	C	ILE	A	185	18.344	90.903	145.305	0.00	0.00	C
ATOM	2607	O	ILE	A	185	17.288	91.061	145.954	0.00	0.00	O
ATOM	2608	CB	ILE	A	185	20.524	91.893	146.171	0.00	0.00	C
ATOM	2609	CG1	ILE	A	185	21.837	91.599	146.969	0.00	0.00	C
ATOM	2610	CG2	ILE	A	185	19.769	93.071	146.858	0.00	0.00	C
ATOM	2611	CD1	ILE	A	185	22.969	92.613	146.699	0.00	0.00	C
ATOM	2612	HN	ILE	A	185	21.205	89.628	145.131	0.00	0.00	H
ATOM	2613	HCA	ILE	A	185	19.345	90.346	147.075	0.00	0.00	H
ATOM	2614	HCB	ILE	A	185	20.792	92.201	145.155	0.00	0.00	H
ATOM	2615	HCD1	ILE	A	185	23.133	92.734	145.627	0.00	0.00	H
ATOM	2616	HCD1	ILE	A	185	22.742	93.583	147.141	0.00	0.00	H
ATOM	2617	HCD1	ILE	A	185	23.889	92.241	147.143	0.00	0.00	H
ATOM	2618	HCG1	ILE	A	185	21.625	91.583	148.039	0.00	0.00	H
ATOM	2619	HCG1	ILE	A	185	22.230	90.615	146.716	0.00	0.00	H
ATOM	2620	HCG2	ILE	A	185	18.914	93.384	146.264	0.00	0.00	H
ATOM	2621	HCG2	ILE	A	185	19.408	92.779	147.846	0.00	0.00	H
ATOM	2622	HCG2	ILE	A	185	20.425	93.931	146.976	0.00	0.00	H
ATOM	2623	N	THR	A	186	18.294	90.982	143.956	0.00	0.00	N
ATOM	2624	CA	THR	A	186	17.117	91.170	143.147	0.00	0.00	C
ATOM	2625	C	THR	A	186	16.109	90.111	143.399	0.00	0.00	C
ATOM	2626	O	THR	A	186	14.945	90.476	143.658	0.00	0.00	O
ATOM	2627	CB	THR	A	186	17.442	91.250	141.623	0.00	0.00	C
ATOM	2628	CG2	THR	A	186	16.232	91.694	140.770	0.00	0.00	C
ATOM	2629	OG1	THR	A	186	18.469	92.205	141.380	0.00	0.00	O
ATOM	2630	HN	THR	A	186	19.122	90.914	143.501	0.00	0.00	H
ATOM	2631	HCA	THR	A	186	16.696	92.141	143.433	0.00	0.00	H
ATOM	2632	HCB	THR	A	186	17.790	90.277	141.262	0.00	0.00	H
ATOM	2633	HCG2	THR	A	186	15.445	90.941	140.804	0.00	0.00	H
ATOM	2634	HCG2	THR	A	186	15.836	92.638	141.146	0.00	0.00	H
ATOM	2635	HCG2	THR	A	186	16.523	91.832	139.729	0.00	0.00	H
ATOM	2636	HOG1	THR	A	186	19.253	91.807	141.776	0.00	0.00	H
ATOM	2637	N	GLU	A	187	16.434	88.795	143.420	0.00	0.00	N
ATOM	2638	CA	GLU	A	187	15.578	87.702	143.807	0.00	0.00	C

ATOM	2639	C	GLU	A	187	14.919	88.017	145.110	0.00	0.00		C
ATOM	2640	O	GLU	A	187	13.667	88.012	145.177	0.00	0.00		O
ATOM	2641	CB	GLU	A	187	16.386	86.363	143.872	0.00	0.00		C
ATOM	2642	CG	GLU	A	187	16.934	85.833	142.505	0.00	0.00		C
ATOM	2643	CD	GLU	A	187	18.084	84.898	142.580	0.00	0.00		C
ATOM	2644	OE1	GLU	A	187	18.536	84.439	143.649	0.00	0.00		O
ATOM	2645	OE2	GLU	A	187	18.700	84.529	141.556	0.00	0.00		O
ATOM	2646	HN	GLU	A	187	17.329	88.581	143.179	0.00	0.00		H
ATOM	2647	HCA	GLU	A	187	14.805	87.587	143.040	0.00	0.00		H
ATOM	2648	HCB	GLU	A	187	17.221	86.501	144.558	0.00	0.00		H
ATOM	2649	HCB	GLU	A	187	15.751	85.582	144.302	0.00	0.00		H
ATOM	2650	HCG	GLU	A	187	16.128	85.325	141.972	0.00	0.00		H
ATOM	2651	HCG	GLU	A	187	17.246	86.672	141.885	0.00	0.00		H
ATOM	2652	N	ILE	A	188	15.654	88.413	146.180	0.00	0.00		N
ATOM	2653	CA	ILE	A	188	15.104	88.913	147.423	0.00	0.00		C
ATOM	2654	C	ILE	A	188	14.183	90.096	147.256	0.00	0.00		C
ATOM	2655	O	ILE	A	188	13.022	90.018	147.721	0.00	0.00		O
ATOM	2656	CB	ILE	A	188	16.275	89.094	148.464	0.00	0.00		C
ATOM	2657	CG1	ILE	A	188	16.741	87.694	149.000	0.00	0.00		C
ATOM	2658	CG2	ILE	A	188	15.929	90.072	149.627	0.00	0.00		C
ATOM	2659	CD1	ILE	A	188	18.117	87.670	149.707	0.00	0.00		C
ATOM	2660	HN	ILE	A	188	16.615	88.348	146.091	0.00	0.00		H
ATOM	2661	HCA	ILE	A	188	14.473	88.108	147.817	0.00	0.00		H
ATOM	2662	HCB	ILE	A	188	17.126	89.535	147.944	0.00	0.00		H
ATOM	2663	HCD1	ILE	A	188	18.882	88.111	149.067	0.00	0.00		H
ATOM	2664	HCD1	ILE	A	188	18.080	88.210	150.652	0.00	0.00		H
ATOM	2665	HCD1	ILE	A	188	18.401	86.637	149.922	0.00	0.00		H
ATOM	2666	HCG1	ILE	A	188	15.987	87.295	149.682	0.00	0.00		H
ATOM	2667	HCG1	ILE	A	188	16.815	86.997	148.160	0.00	0.00		H
ATOM	2668	HCG2	ILE	A	188	15.843	91.093	149.251	0.00	0.00		H
ATOM	2669	HCG2	ILE	A	188	14.985	89.796	150.086	0.00	0.00		H
ATOM	2670	HCG2	ILE	A	188	16.697	90.072	150.398	0.00	0.00		H
ATOM	2671	N	VAL	A	189	14.524	91.265	146.658	0.00	0.00		N
ATOM	2672	CA	VAL	A	189	13.637	92.417	146.540	0.00	0.00		C
ATOM	2673	C	VAL	A	189	12.389	92.119	145.761	0.00	0.00		C
ATOM	2674	O	VAL	A	189	11.271	92.542	146.157	0.00	0.00		O
ATOM	2675	CB	VAL	A	189	14.309	93.737	146.028	0.00	0.00		C
ATOM	2676	CG1	VAL	A	189	13.428	94.983	146.359	0.00	0.00		C
ATOM	2677	CG2	VAL	A	189	15.740	93.965	146.589	0.00	0.00		C
ATOM	2678	HN	VAL	A	189	15.423	91.301	146.339	0.00	0.00		H
ATOM	2679	HCA	VAL	A	189	13.338	92.631	147.569	0.00	0.00		H
ATOM	2680	HCB	VAL	A	189	14.396	93.665	144.940	0.00	0.00		H
ATOM	2681	HCG1	VAL	A	189	13.225	95.042	147.430	0.00	0.00		H
ATOM	2682	HCG1	VAL	A	189	13.927	95.905	146.062	0.00	0.00		H
ATOM	2683	HCG1	VAL	A	189	12.477	94.936	145.827	0.00	0.00		H
ATOM	2684	HCG2	VAL	A	189	16.443	93.339	146.051	0.00	0.00		H
ATOM	2685	HCG2	VAL	A	189	16.072	94.997	146.455	0.00	0.00		H
ATOM	2686	HCG2	VAL	A	189	15.789	93.718	147.648	0.00	0.00		H
ATOM	2687	N	ASP	A	190	12.446	91.344	144.653	0.00	0.00		N
ATOM	2688	CA	ASP	A	190	11.332	90.822	143.918	0.00	0.00		C
ATOM	2689	C	ASP	A	190	10.457	90.039	144.820	0.00	0.00		C
ATOM	2690	O	ASP	A	190	9.240	90.334	144.907	0.00	0.00		O
ATOM	2691	CB	ASP	A	190	11.808	89.940	142.733	0.00	0.00		C
ATOM	2692	CG	ASP	A	190	12.469	90.667	141.646	0.00	0.00		C
ATOM	2693	OD1	ASP	A	190	12.598	91.909	141.604	0.00	0.00		O
ATOM	2694	OD2	ASP	A	190	12.903	90.024	140.672	0.00	0.00		O
ATOM	2695	HN	ASP	A	190	13.306	91.080	144.345	0.00	0.00		H
ATOM	2696	HCA	ASP	A	190	10.776	91.656	143.492	0.00	0.00		H
ATOM	2697	HCB	ASP	A	190	12.496	89.174	143.093	0.00	0.00		H
ATOM	2698	HCB	ASP	A	190	10.946	89.434	142.289	0.00	0.00		H
ATOM	2699	N	ALA	A	191	10.993	89.054	145.583	0.00	0.00		N
ATOM	2700	CA	ALA	A	191	10.291	88.315	146.579	0.00	0.00		C
ATOM	2701	C	ALA	A	191	9.547	89.184	147.533	0.00	0.00		C
ATOM	2702	O	ALA	A	191	8.314	89.001	147.671	0.00	0.00		O
ATOM	2703	CB	ALA	A	191	11.257	87.299	147.248	0.00	0.00		C
ATOM	2704	HN	ALA	A	191	11.908	88.806	145.433	0.00	0.00		H
ATOM	2705	HCA	ALA	A	191	9.565	87.749	146.015	0.00	0.00		H
ATOM	2706	HCB	ALA	A	191	11.962	87.798	147.907	0.00	0.00		H
ATOM	2707	HCB	ALA	A	191	10.723	86.563	147.840	0.00	0.00		H
ATOM	2708	HCB	ALA	A	191	11.814	86.748	146.489	0.00	0.00		H
ATOM	2709	N	ILE	A	192	10.168	90.216	148.151	0.00	0.00		N
ATOM	2710	CA	ILE	A	192	9.532	91.230	148.963	0.00	0.00		C
ATOM	2711	C	ILE	A	192	8.326	91.830	148.302	0.00	0.00		C
ATOM	2712	O	ILE	A	192	7.194	91.744	148.863	0.00	0.00		O
ATOM	2713	CB	ILE	A	192	10.601	92.294	149.456	0.00	0.00		C
ATOM	2714	CG1	ILE	A	192	11.427	91.930	150.740	0.00	0.00		C
ATOM	2715	CG2	ILE	A	192	10.043	93.737	149.671	0.00	0.00		C
ATOM	2716	CD1	ILE	A	192	11.873	90.463	150.921	0.00	0.00		C
ATOM	2717	HN	ILE	A	192	11.118	90.243	148.023	0.00	0.00		H
ATOM	2718	HCA	ILE	A	192	9.157	90.699	149.825	0.00	0.00		H

ATOM	2719	HC	ILE	A	192	11.331	92.391	148.656	0.00	0.00	H
ATOM	2720	HCD1	ILE	A	192	11.031	89.775	150.926	0.00	0.00	H
ATOM	2721	HCD1	ILE	A	192	12.550	90.174	150.125	0.00	0.00	H
ATOM	2722	HCD1	ILE	A	192	12.397	90.367	151.874	0.00	0.00	H
ATOM	2723	HCG1	ILE	A	192	12.340	92.534	150.733	0.00	0.00	H
ATOM	2724	HCG1	ILE	A	192	10.877	92.228	151.635	0.00	0.00	H
ATOM	2725	HCG2	ILE	A	192	9.733	94.187	148.728	0.00	0.00	H
ATOM	2726	HCG2	ILE	A	192	9.184	93.704	150.341	0.00	0.00	H
ATOM	2727	HCG2	ILE	A	192	10.798	94.398	150.103	0.00	0.00	H
ATOM	2728	N	THR	A	193	8.492	92.503	147.133	0.00	0.00	N
ATOM	2729	CA	THR	A	193	7.467	93.279	146.477	0.00	0.00	C
ATOM	2730	C	THR	A	193	6.340	92.483	145.923	0.00	0.00	C
ATOM	2731	O	THR	A	193	5.176	92.900	146.141	0.00	0.00	O
ATOM	2732	CB	THR	A	193	8.046	94.298	145.444	0.00	0.00	C
ATOM	2733	CG2	THR	A	193	8.498	93.703	144.099	0.00	0.00	C
ATOM	2734	OG1	THR	A	193	7.073	95.288	145.121	0.00	0.00	O
ATOM	2735	HN	THR	A	193	9.382	92.500	146.763	0.00	0.00	H
ATOM	2736	HCA	THR	A	193	7.049	93.907	147.268	0.00	0.00	H
ATOM	2737	HC	THR	A	193	8.900	94.806	145.905	0.00	0.00	H
ATOM	2738	HCG2	THR	A	193	9.113	92.837	144.289	0.00	0.00	H
ATOM	2739	HCG2	THR	A	193	7.637	93.403	143.498	0.00	0.00	H
ATOM	2740	HCG2	THR	A	193	9.082	94.432	143.534	0.00	0.00	H
ATOM	2741	HOG1	THR	A	193	7.521	95.899	144.496	0.00	0.00	H
ATOM	2742	N	THR	A	194	6.537	91.325	145.235	0.00	0.00	N
ATOM	2743	CA	THR	A	194	5.503	90.495	144.634	0.00	0.00	C
ATOM	2744	C	THR	A	194	4.774	89.646	145.630	0.00	0.00	C
ATOM	2745	O	THR	A	194	4.413	88.472	145.374	0.00	0.00	O
ATOM	2746	CB	THR	A	194	6.096	89.656	143.455	0.00	0.00	C
ATOM	2747	CG2	THR	A	194	6.722	90.506	142.326	0.00	0.00	C
ATOM	2748	OG1	THR	A	194	7.085	88.740	143.920	0.00	0.00	O
ATOM	2749	HN	THR	A	194	7.441	91.019	145.150	0.00	0.00	H
ATOM	2750	HCA	THR	A	194	4.745	91.154	144.198	0.00	0.00	H
ATOM	2751	HC	THR	A	194	5.290	89.067	143.003	0.00	0.00	H
ATOM	2752	HCG2	THR	A	194	6.002	91.239	141.956	0.00	0.00	H
ATOM	2753	HCG2	THR	A	194	7.610	91.028	142.680	0.00	0.00	H
ATOM	2754	HCG2	THR	A	194	7.013	89.859	141.496	0.00	0.00	H
ATOM	2755	HOG1	THR	A	194	7.809	89.281	144.255	0.00	0.00	H
ATOM	2756	N	THR	A	195	4.446	90.237	146.798	0.00	0.00	N
ATOM	2757	CA	THR	A	195	3.858	89.674	147.979	0.00	0.00	C
ATOM	2758	C	THR	A	195	3.405	90.773	148.861	0.00	0.00	C
ATOM	2759	O	THR	A	195	2.231	90.704	149.288	0.00	0.00	O
ATOM	2760	CB	THR	A	195	4.804	88.691	148.734	0.00	0.00	C
ATOM	2761	CG2	THR	A	195	4.482	88.405	150.228	0.00	0.00	C
ATOM	2762	OG1	THR	A	195	4.738	87.426	148.077	0.00	0.00	O
ATOM	2763	HN	THR	A	195	4.662	91.164	146.784	0.00	0.00	H
ATOM	2764	HCA	THR	A	195	2.977	89.108	147.669	0.00	0.00	H
ATOM	2765	HC	THR	A	195	5.827	89.074	148.674	0.00	0.00	H
ATOM	2766	HCG2	THR	A	195	3.724	87.626	150.314	0.00	0.00	H
ATOM	2767	HCG2	THR	A	195	5.388	88.074	150.731	0.00	0.00	H
ATOM	2768	HCG2	THR	A	195	4.131	89.279	150.764	0.00	0.00	H
ATOM	2769	HOG1	THR	A	195	5.037	86.794	148.745	0.00	0.00	H
ATOM	2770	N	ALA	A	196	4.211	91.769	149.314	0.00	0.00	N
ATOM	2771	CA	ALA	A	196	3.746	92.799	150.210	0.00	0.00	C
ATOM	2772	C	ALA	A	196	2.604	93.604	149.670	0.00	0.00	C
ATOM	2773	O	ALA	A	196	2.784	94.557	148.868	0.00	0.00	O
ATOM	2774	CB	ALA	A	196	4.944	93.662	150.645	0.00	0.00	C
ATOM	2775	HN	ALA	A	196	5.146	91.763	149.074	0.00	0.00	H
ATOM	2776	HCA	ALA	A	196	3.397	92.302	151.123	0.00	0.00	H
ATOM	2777	HC	ALA	A	196	5.630	93.069	151.243	0.00	0.00	H
ATOM	2778	HC	ALA	A	196	5.485	94.022	149.775	0.00	0.00	H
ATOM	2779	HC	ALA	A	196	4.606	94.513	151.239	0.00	0.00	H
ATOM	2780	N	GLN	A	197	1.350	93.245	150.032	0.00	0.00	N
ATOM	2781	CA	GLN	A	197	0.112	93.851	149.617	0.00	0.00	C
ATOM	2782	C	GLN	A	197	-0.764	94.088	150.761	0.00	0.00	C
ATOM	2783	O	GLN	A	197	-1.615	94.964	150.673	0.00	0.00	O
ATOM	2784	CB	GLN	A	197	-0.563	92.941	148.548	0.00	0.00	C
ATOM	2785	CG	GLN	A	197	0.152	92.966	147.158	0.00	0.00	C
ATOM	2786	CD	GLN	A	197	0.095	91.692	146.423	0.00	0.00	C
ATOM	2787	NE2	GLN	A	197	0.658	90.604	146.947	0.00	0.00	N
ATOM	2788	OE1	GLN	A	197	-0.407	91.610	145.287	0.00	0.00	O
ATOM	2789	HN	GLN	A	197	1.274	92.488	150.623	0.00	0.00	H
ATOM	2790	HNE2	GLN	A	197	1.113	90.678	147.775	0.00	0.00	H
ATOM	2791	HNE2	GLN	A	197	0.674	89.751	146.520	0.00	0.00	H
ATOM	2792	HCA	GLN	A	197	0.309	94.826	149.168	0.00	0.00	H
ATOM	2793	HC	GLN	A	197	-0.602	91.922	148.949	0.00	0.00	H
ATOM	2794	HC	GLN	A	197	-1.599	93.261	148.394	0.00	0.00	H
ATOM	2795	HCG	GLN	A	197	-0.285	93.759	146.546	0.00	0.00	H
ATOM	2796	HCG	GLN	A	197	1.211	93.196	147.269	0.00	0.00	H
ATOM	2797	N	SER	A	198	-0.651	93.369	151.863	0.00	0.00	N
ATOM	2798	CA	SER	A	198	-1.366	93.500	153.097	0.00	0.00	C

ATOM	2799	C	SER	A	198	-1.558	94.896	153.593	0.00	0.00	C
ATOM	2800	O	SER	A	198	-2.694	95.419	153.487	0.00	0.00	O
ATOM	2801	CB	SER	A	198	-0.630	92.605	154.132	0.00	0.00	C
ATOM	2802	OG	SER	A	198	0.752	92.979	154.221	0.00	0.00	O
ATOM	2803	HN	SER	A	198	-0.051	92.622	151.833	0.00	0.00	H
ATOM	2804	HCA	SER	A	198	-2.336	93.050	152.916	0.00	0.00	H
ATOM	2805	HC	SER	A	198	-1.094	92.683	155.115	0.00	0.00	H
ATOM	2806	HC	SER	A	198	-0.697	91.559	153.822	0.00	0.00	H
ATOM	2807	HOG	SER	A	198	1.181	92.270	154.691	0.00	0.00	H
ATOM	2808	N	HSE	A	199	-0.491	95.513	154.150	0.00	0.00	N
ATOM	2809	CA	HSE	A	199	-0.335	96.842	154.682	0.00	0.00	C
ATOM	2810	C	HSE	A	199	0.742	97.598	153.968	0.00	0.00	C
ATOM	2811	O	HSE	A	199	1.435	97.041	153.079	0.00	0.00	O
ATOM	2812	CB	HSE	A	199	0.092	96.780	156.186	0.00	0.00	C
ATOM	2813	CG	HSE	A	199	-0.648	95.872	157.075	0.00	0.00	C
ATOM	2814	CD2	HSE	A	199	-1.412	96.209	158.189	0.00	0.00	C
ATOM	2815	ND1	HSE	A	199	-0.610	94.534	156.993	0.00	0.00	N
ATOM	2816	CE1	HSE	A	199	-1.341	94.053	158.005	0.00	0.00	C
ATOM	2817	NE2	HSE	A	199	-1.818	95.064	158.748	0.00	0.00	N
ATOM	2818	HN	HSE	A	199	0.242	94.900	154.220	0.00	0.00	H
ATOM	2819	HNE2	HSE	A	199	-2.342	94.978	159.547	0.00	0.00	H
ATOM	2820	HCA	HSE	A	199	-1.274	97.397	154.591	0.00	0.00	H
ATOM	2821	HC	HSE	A	199	1.130	96.450	156.244	0.00	0.00	H
ATOM	2822	HC	HSE	A	199	0.048	97.785	156.614	0.00	0.00	H
ATOM	2823	HCD2	HSE	A	199	-1.610	97.152	158.529	0.00	0.00	H
ATOM	2824	HCE1	HSE	A	199	-1.495	93.059	158.173	0.00	0.00	H
ATOM	2825	N	GLN	A	200	1.034	98.868	154.355	0.00	0.00	N
ATOM	2826	CA	GLN	A	200	2.181	99.673	154.020	0.00	0.00	C
ATOM	2827	C	GLN	A	200	3.450	99.195	154.608	0.00	0.00	C
ATOM	2828	O	GLN	A	200	4.225	99.946	155.202	0.00	0.00	O
ATOM	2829	CB	GLN	A	200	1.858	101.165	154.385	0.00	0.00	C
ATOM	2830	CG	GLN	A	200	0.447	101.694	153.965	0.00	0.00	C
ATOM	2831	CD	GLN	A	200	-0.567	101.639	155.044	0.00	0.00	C
ATOM	2832	NE2	GLN	A	200	-1.222	102.729	155.460	0.00	0.00	N
ATOM	2833	OE1	GLN	A	200	-0.866	100.571	155.625	0.00	0.00	O
ATOM	2834	HN	GLN	A	200	0.391	99.314	154.902	0.00	0.00	H
ATOM	2835	HNE2	GLN	A	200	-1.071	103.575	155.058	0.00	0.00	H
ATOM	2836	HNE2	GLN	A	200	-1.857	102.630	156.186	0.00	0.00	H
ATOM	2837	HCA	GLN	A	200	2.298	99.623	152.938	0.00	0.00	H
ATOM	2838	HC	GLN	A	200	1.984	101.309	155.463	0.00	0.00	H
ATOM	2839	HC	GLN	A	200	2.614	101.790	153.898	0.00	0.00	H
ATOM	2840	HCG	GLN	A	200	0.550	102.732	153.638	0.00	0.00	H
ATOM	2841	HCG	GLN	A	200	0.073	101.131	153.108	0.00	0.00	H
ATOM	2842	N	ARG	A	201	3.779	97.927	154.430	0.00	0.00	N
ATOM	2843	CA	ARG	A	201	4.960	97.265	154.915	0.00	0.00	C
ATOM	2844	C	ARG	A	201	6.185	97.982	154.465	0.00	0.00	C
ATOM	2845	O	ARG	A	201	6.455	98.117	153.243	0.00	0.00	O
ATOM	2846	CB	ARG	A	201	5.047	95.759	154.528	0.00	0.00	C
ATOM	2847	CG	ARG	A	201	4.038	94.812	155.233	0.00	0.00	C
ATOM	2848	CD	ARG	A	201	4.353	93.307	155.002	0.00	0.00	C
ATOM	2849	NE	ARG	A	201	3.316	92.524	155.580	0.00	0.00	N
ATOM	2850	CZ	ARG	A	201	3.087	91.228	155.366	0.00	0.00	C
ATOM	2851	NH1	ARG	A	201	3.869	90.343	154.767	0.00	0.00	N
ATOM	2852	NH2	ARG	A	201	1.910	90.770	155.754	0.00	0.00	N
ATOM	2853	HN	ARG	A	201	3.113	97.437	153.956	0.00	0.00	H
ATOM	2854	HNE	ARG	A	201	2.676	92.997	156.133	0.00	0.00	H
ATOM	2855	HNH1	ARG	A	201	4.772	90.521	154.494	0.00	0.00	H
ATOM	2856	HNH1	ARG	A	201	3.514	89.464	154.605	0.00	0.00	H
ATOM	2857	HNH2	ARG	A	201	1.306	91.342	156.251	0.00	0.00	H
ATOM	2858	HNH2	ARG	A	201	1.658	89.884	155.531	0.00	0.00	H
ATOM	2859	HCA	ARG	A	201	4.912	97.304	156.007	0.00	0.00	H
ATOM	2860	HC	ARG	A	201	4.940	95.663	153.446	0.00	0.00	H
ATOM	2861	HC	ARG	A	201	6.045	95.415	154.808	0.00	0.00	H
ATOM	2862	HCD	ARG	A	201	4.402	93.116	153.925	0.00	0.00	H
ATOM	2863	HCD	ARG	A	201	5.313	93.045	155.457	0.00	0.00	H
ATOM	2864	HCG	ARG	A	201	4.063	94.997	156.310	0.00	0.00	H
ATOM	2865	HCG	ARG	A	201	3.031	95.039	154.872	0.00	0.00	H
ATOM	2866	N	THR	A	202	6.974	98.534	155.409	0.00	0.00	N
ATOM	2867	CA	THR	A	202	8.133	99.332	155.144	0.00	0.00	C
ATOM	2868	C	THR	A	202	9.339	98.491	155.381	0.00	0.00	C
ATOM	2869	O	THR	A	202	9.550	97.955	156.492	0.00	0.00	O
ATOM	2870	CB	THR	A	202	7.969	100.647	155.959	0.00	0.00	C
ATOM	2871	CG2	THR	A	202	9.183	101.603	155.883	0.00	0.00	C
ATOM	2872	OG1	THR	A	202	6.837	101.379	155.455	0.00	0.00	O
ATOM	2873	HN	THR	A	202	6.710	98.413	156.328	0.00	0.00	H
ATOM	2874	HCA	THR	A	202	8.153	99.642	154.099	0.00	0.00	H
ATOM	2875	HC	THR	A	202	7.782	100.406	157.008	0.00	0.00	H
ATOM	2876	HCG2	THR	A	202	9.381	101.913	154.860	0.00	0.00	H
ATOM	2877	HCG2	THR	A	202	8.982	102.495	156.479	0.00	0.00	H
ATOM	2878	HCG2	THR	A	202	10.081	101.126	156.268	0.00	0.00	H

ATOM	2879	HOG1	THR	A	202	6.045	100.801	155.448	0.00	0.00		H
ATOM	2880	N	PHE	A	203	10.180	98.214	154.361	0.00	0.00		N
ATOM	2881	CA	PHE	A	203	11.282	97.293	154.393	0.00	0.00		C
ATOM	2882	C	PHE	A	203	12.565	98.019	154.424	0.00	0.00		C
ATOM	2883	O	PHE	A	203	12.870	98.744	153.449	0.00	0.00		O
ATOM	2884	CB	PHE	A	203	11.214	96.359	153.153	0.00	0.00		C
ATOM	2885	CG	PHE	A	203	10.006	95.507	153.183	0.00	0.00		C
ATOM	2886	CD1	PHE	A	203	8.906	95.792	152.346	0.00	0.00		C
ATOM	2887	CD2	PHE	A	203	9.929	94.418	154.082	0.00	0.00		C
ATOM	2888	CE1	PHE	A	203	7.754	94.994	152.398	0.00	0.00		C
ATOM	2889	CE2	PHE	A	203	8.768	93.631	154.145	0.00	0.00		C
ATOM	2890	CZ	PHE	A	203	7.690	93.908	153.289	0.00	0.00		C
ATOM	2891	HN	PHE	A	203	9.983	98.638	153.528	0.00	0.00		H
ATOM	2892	HCA	PHE	A	203	11.233	96.658	155.283	0.00	0.00		H
ATOM	2893	HCB	PHE	A	203	11.236	96.962	152.240	0.00	0.00		H
ATOM	2894	HCB	PHE	A	203	12.093	95.714	153.124	0.00	0.00		H
ATOM	2895	HCD1	PHE	A	203	8.932	96.584	151.699	0.00	0.00		H
ATOM	2896	HCD2	PHE	A	203	10.714	94.198	154.699	0.00	0.00		H
ATOM	2897	HCE1	PHE	A	203	6.967	95.215	151.791	0.00	0.00		H
ATOM	2898	HCE2	PHE	A	203	8.706	92.864	154.814	0.00	0.00		H
ATOM	2899	HCZ	PHE	A	203	6.855	93.327	153.327	0.00	0.00		H
ATOM	2900	N	VAL	A	204	13.408	97.850	155.469	0.00	0.00		N
ATOM	2901	CA	VAL	A	204	14.738	98.376	155.548	0.00	0.00		C
ATOM	2902	C	VAL	A	204	15.643	97.244	155.223	0.00	0.00		C
ATOM	2903	O	VAL	A	204	15.780	96.292	156.031	0.00	0.00		O
ATOM	2904	CB	VAL	A	204	15.023	99.083	156.914	0.00	0.00		C
ATOM	2905	CG1	VAL	A	204	16.395	99.812	156.895	0.00	0.00		C
ATOM	2906	CG2	VAL	A	204	13.913	100.103	157.297	0.00	0.00		C
ATOM	2907	HN	VAL	A	204	13.104	97.303	156.194	0.00	0.00		H
ATOM	2908	HCA	VAL	A	204	14.879	99.135	154.781	0.00	0.00		H
ATOM	2909	HCB	VAL	A	204	15.052	98.324	157.700	0.00	0.00		H
ATOM	2910	HCG1	VAL	A	204	17.200	99.113	156.661	0.00	0.00		H
ATOM	2911	HCG1	VAL	A	204	16.400	100.609	156.148	0.00	0.00		H
ATOM	2912	HCG1	VAL	A	204	16.597	100.254	157.871	0.00	0.00		H
ATOM	2913	HCG2	VAL	A	204	12.953	99.597	157.392	0.00	0.00		H
ATOM	2914	HCG2	VAL	A	204	14.138	100.575	158.255	0.00	0.00		H
ATOM	2915	HCG2	VAL	A	204	13.820	100.880	156.536	0.00	0.00		H
ATOM	2916	N	LEU	A	205	16.264	97.231	154.021	0.00	0.00		N
ATOM	2917	CA	LEU	A	205	17.086	96.178	153.513	0.00	0.00		C
ATOM	2918	C	LEU	A	205	18.503	96.568	153.712	0.00	0.00		C
ATOM	2919	O	LEU	A	205	18.968	97.553	153.084	0.00	0.00		O
ATOM	2920	CB	LEU	A	205	16.741	95.889	152.019	0.00	0.00		C
ATOM	2921	CG	LEU	A	205	15.242	95.572	151.706	0.00	0.00		C
ATOM	2922	CD1	LEU	A	205	15.057	95.264	150.198	0.00	0.00		C
ATOM	2923	CD2	LEU	A	205	14.678	94.392	152.541	0.00	0.00		C
ATOM	2924	HN	LEU	A	205	16.138	97.994	153.454	0.00	0.00		H
ATOM	2925	HCA	LEU	A	205	16.908	95.251	154.064	0.00	0.00		H
ATOM	2926	HCB	LEU	A	205	17.030	96.759	151.422	0.00	0.00		H
ATOM	2927	HCB	LEU	A	205	17.357	95.049	151.684	0.00	0.00		H
ATOM	2928	HCD1	LEU	A	205	15.582	94.344	149.936	0.00	0.00		H
ATOM	2929	HCD1	LEU	A	205	13.999	95.143	149.958	0.00	0.00		H
ATOM	2930	HCD1	LEU	A	205	15.450	96.076	149.585	0.00	0.00		H
ATOM	2931	HCD2	LEU	A	205	15.329	93.519	152.460	0.00	0.00		H
ATOM	2932	HCD2	LEU	A	205	14.589	94.682	153.588	0.00	0.00		H
ATOM	2933	HCD2	LEU	A	205	13.683	94.110	152.194	0.00	0.00		H
ATOM	2934	HCG	LEU	A	205	14.645	96.463	151.932	0.00	0.00		H
ATOM	2935	N	GLU	A	206	19.275	95.874	154.584	0.00	0.00		N
ATOM	2936	CA	GLU	A	206	20.667	96.122	154.825	0.00	0.00		C
ATOM	2937	C	GLU	A	206	21.457	95.169	154.004	0.00	0.00		C
ATOM	2938	O	GLU	A	206	21.397	93.930	154.233	0.00	0.00		O
ATOM	2939	CB	GLU	A	206	20.998	96.123	156.340	0.00	0.00		C
ATOM	2940	CG	GLU	A	206	22.450	96.600	156.650	0.00	0.00		C
ATOM	2941	CD	GLU	A	206	22.773	96.755	158.079	0.00	0.00		C
ATOM	2942	OE1	GLU	A	206	21.945	96.528	158.987	0.00	0.00		O
ATOM	2943	OE2	GLU	A	206	23.911	97.148	158.415	0.00	0.00		O
ATOM	2944	HN	GLU	A	206	18.860	95.147	155.051	0.00	0.00		H
ATOM	2945	HCA	GLU	A	206	20.899	97.134	154.496	0.00	0.00		H
ATOM	2946	HCB	GLU	A	206	20.294	96.793	156.842	0.00	0.00		H
ATOM	2947	HCB	GLU	A	206	20.853	95.127	156.753	0.00	0.00		H
ATOM	2948	HCG	GLU	A	206	23.161	95.886	156.228	0.00	0.00		H
ATOM	2949	HCG	GLU	A	206	22.623	97.568	156.176	0.00	0.00		H
ATOM	2950	N	VAL	A	207	22.185	95.696	152.989	0.00	0.00		N
ATOM	2951	CA	VAL	A	207	22.912	94.980	151.974	0.00	0.00		C
ATOM	2952	C	VAL	A	207	24.375	95.237	152.099	0.00	0.00		C
ATOM	2953	O	VAL	A	207	24.791	96.172	152.824	0.00	0.00		O
ATOM	2954	CB	VAL	A	207	22.354	95.310	150.543	0.00	0.00		C
ATOM	2955	CG1	VAL	A	207	20.820	95.085	150.436	0.00	0.00		C
ATOM	2956	CG2	VAL	A	207	22.686	96.740	150.039	0.00	0.00		C
ATOM	2957	HN	VAL	A	207	22.220	96.656	152.957	0.00	0.00		H
ATOM	2958	HCA	VAL	A	207	22.777	93.908	152.130	0.00	0.00		H

ATOM	2959	HC	VAL	A	207	22.824	94.612	149.841	0.00	0.00		H
ATOM	2960	HCG1	VAL	A	207	20.557	94.098	150.805	0.00	0.00		H
ATOM	2961	HCG1	VAL	A	207	20.273	95.827	151.021	0.00	0.00		H
ATOM	2962	HCG1	VAL	A	207	20.492	95.158	149.397	0.00	0.00		H
ATOM	2963	HCG2	VAL	A	207	22.233	97.494	150.683	0.00	0.00		H
ATOM	2964	HCG2	VAL	A	207	23.763	96.904	150.010	0.00	0.00		H
ATOM	2965	HCG2	VAL	A	207	22.304	96.873	149.027	0.00	0.00		H
ATOM	2966	N	MET	A	208	25.277	94.473	151.437	0.00	0.00		N
ATOM	2967	CA	MET	A	208	26.709	94.632	151.514	0.00	0.00		C
ATOM	2968	C	MET	A	208	27.196	95.882	150.862	0.00	0.00		C
ATOM	2969	O	MET	A	208	26.421	96.597	150.182	0.00	0.00		O
ATOM	2970	CB	MET	A	208	27.363	93.334	150.954	0.00	0.00		C
ATOM	2971	CG	MET	A	208	28.867	93.149	151.288	0.00	0.00		C
ATOM	2972	SD	MET	A	208	29.387	91.428	151.100	0.00	0.00		S
ATOM	2973	CE	MET	A	208	28.793	90.766	152.669	0.00	0.00		C
ATOM	2974	HN	MET	A	208	24.959	93.792	150.849	0.00	0.00		H
ATOM	2975	HCA	MET	A	208	26.970	94.696	152.575	0.00	0.00		H
ATOM	2976	HC	MET	A	208	26.824	92.489	151.375	0.00	0.00		H
ATOM	2977	HC	MET	A	208	27.229	93.283	149.871	0.00	0.00		H
ATOM	2978	HCE	MET	A	208	27.727	90.941	152.799	0.00	0.00		H
ATOM	2979	HCE	MET	A	208	28.975	89.695	152.658	0.00	0.00		H
ATOM	2980	HCE	MET	A	208	29.340	91.223	153.494	0.00	0.00		H
ATOM	2981	HCG	MET	A	208	29.467	93.737	150.590	0.00	0.00		H
ATOM	2982	HCG	MET	A	208	29.097	93.484	152.302	0.00	0.00		H
ATOM	2983	N	GLY	A	209	28.479	96.265	151.043	0.00	0.00		N
ATOM	2984	CA	GLY	A	209	29.053	97.509	150.635	0.00	0.00		C
ATOM	2985	C	GLY	A	209	29.878	98.048	151.729	0.00	0.00		C
ATOM	2986	O	GLY	A	209	29.459	99.032	152.388	0.00	0.00		O
ATOM	2987	HN	GLY	A	209	29.060	95.643	151.507	0.00	0.00		H
ATOM	2988	HCA	GLY	A	209	29.678	97.345	149.756	0.00	0.00		H
ATOM	2989	HCA	GLY	A	209	28.284	98.240	150.370	0.00	0.00		H
ATOM	2990	N	ARG	A	210	31.068	97.460	152.006	0.00	0.00		N
ATOM	2991	CA	ARG	A	210	31.947	97.842	153.083	0.00	0.00		C
ATOM	2992	C	ARG	A	210	32.478	99.216	152.875	0.00	0.00		C
ATOM	2993	O	ARG	A	210	32.366	100.079	153.777	0.00	0.00		O
ATOM	2994	CB	ARG	A	210	33.083	96.806	153.366	0.00	0.00		C
ATOM	2995	CG	ARG	A	210	33.972	96.361	152.165	0.00	0.00		C
ATOM	2996	CD	ARG	A	210	35.344	95.765	152.562	0.00	0.00		C
ATOM	2997	NE	ARG	A	210	36.230	96.783	153.026	0.00	0.00		N
ATOM	2998	CZ	ARG	A	210	37.511	96.619	153.352	0.00	0.00		C
ATOM	2999	NH1	ARG	A	210	38.178	95.475	153.327	0.00	0.00		N
ATOM	3000	NH2	ARG	A	210	38.115	97.731	153.721	0.00	0.00		N
ATOM	3001	HN	ARG	A	210	31.330	96.766	151.392	0.00	0.00		H
ATOM	3002	HNE	ARG	A	210	35.927	97.689	153.131	0.00	0.00		H
ATOM	3003	HNH1	ARG	A	210	37.730	94.665	153.054	0.00	0.00		H
ATOM	3004	HNH1	ARG	A	210	39.108	95.455	153.584	0.00	0.00		H
ATOM	3005	HNH2	ARG	A	210	37.565	98.511	153.713	0.00	0.00		H
ATOM	3006	HNH2	ARG	A	210	39.043	97.748	153.982	0.00	0.00		H
ATOM	3007	HCA	ARG	A	210	31.341	97.863	153.998	0.00	0.00		H
ATOM	3008	HC	ARG	A	210	33.724	97.221	154.151	0.00	0.00		H
ATOM	3009	HC	ARG	A	210	32.623	95.906	153.788	0.00	0.00		H
ATOM	3010	HCD	ARG	A	210	35.207	95.001	153.333	0.00	0.00		H
ATOM	3011	HCD	ARG	A	210	35.782	95.286	151.679	0.00	0.00		H
ATOM	3012	HCG	ARG	A	210	33.436	95.586	151.618	0.00	0.00		H
ATOM	3013	HCG	ARG	A	210	34.154	97.180	151.472	0.00	0.00		H
ATOM	3014	N	HSE	A	211	33.050	99.530	151.694	0.00	0.00		N
ATOM	3015	CA	HSE	A	211	33.542	100.815	151.290	0.00	0.00		C
ATOM	3016	C	HSE	A	211	33.107	101.068	149.888	0.00	0.00		C
ATOM	3017	O	HSE	A	211	33.898	101.647	149.101	0.00	0.00		O
ATOM	3018	CB	HSE	A	211	35.092	100.823	151.498	0.00	0.00		C
ATOM	3019	CG	HSE	A	211	35.472	100.768	152.923	0.00	0.00		C
ATOM	3020	CD2	HSE	A	211	35.401	101.818	153.831	0.00	0.00		C
ATOM	3021	ND1	HSE	A	211	35.929	99.683	153.577	0.00	0.00		N
ATOM	3022	CE1	HSE	A	211	36.112	100.052	154.860	0.00	0.00		C
ATOM	3023	NE2	HSE	A	211	35.804	101.345	155.013	0.00	0.00		N
ATOM	3024	HN	HSE	A	211	33.124	98.808	151.051	0.00	0.00		H
ATOM	3025	HNE2	HSE	A	211	35.862	101.847	155.841	0.00	0.00		H
ATOM	3026	HCA	HSE	A	211	33.096	101.614	151.890	0.00	0.00		H
ATOM	3027	HC	HSE	A	211	35.534	99.968	150.979	0.00	0.00		H
ATOM	3028	HC	HSE	A	211	35.534	101.727	151.073	0.00	0.00		H
ATOM	3029	HCD2	HSE	A	211	35.096	102.773	153.636	0.00	0.00		H
ATOM	3030	HCE1	HSE	A	211	36.442	99.437	155.608	0.00	0.00		H
ATOM	3031	N	CYS	A	212	31.869	100.680	149.466	0.00	0.00		N
ATOM	3032	CA	CYS	A	212	31.365	100.816	148.120	0.00	0.00		C
ATOM	3033	C	CYS	A	212	29.888	100.664	148.008	0.00	0.00		C
ATOM	3034	O	CYS	A	212	29.341	99.618	148.422	0.00	0.00		O
ATOM	3035	CB	CYS	A	212	32.089	99.825	147.165	0.00	0.00		C
ATOM	3036	SG	CYS	A	212	31.739	100.147	145.424	0.00	0.00		S
ATOM	3037	HN	CYS	A	212	31.298	100.241	150.116	0.00	0.00		H
ATOM	3038	HCA	CYS	A	212	31.588	101.831	147.808	0.00	0.00		H

ATOM	3039	HC	B	CYS	A	212	33.169	99.906	147.286	0.00	0.00		H
ATOM	3040	HC	B	CYS	A	212	31.801	98.798	147.395	0.00	0.00		H
ATOM	3041	HS	G	CYS	A	212	30.431	99.837	145.570	0.00	0.00		H
ATOM	3042	N		GLY	A	213	29.141	101.618	147.407	0.00	0.00		N
ATOM	3043	CA		GLY	A	213	27.714	101.600	147.238	0.00	0.00		C
ATOM	3044	C		GLY	A	213	27.174	100.916	146.040	0.00	0.00		C
ATOM	3045	O		GLY	A	213	25.956	101.077	145.778	0.00	0.00		O
ATOM	3046	HN		GLY	A	213	29.613	102.396	147.094	0.00	0.00		H
ATOM	3047	HCA		GLY	A	213	27.232	101.180	148.124	0.00	0.00		H
ATOM	3048	HCA		GLY	A	213	27.418	102.646	147.169	0.00	0.00		H
ATOM	3049	N		TYR	A	214	27.950	100.153	145.233	0.00	0.00		N
ATOM	3050	CA		TYR	A	214	27.548	99.591	143.968	0.00	0.00		C
ATOM	3051	C		TYR	A	214	26.342	98.725	144.062	0.00	0.00		C
ATOM	3052	O		TYR	A	214	25.327	99.067	143.412	0.00	0.00		O
ATOM	3053	CB		TYR	A	214	28.733	98.820	143.319	0.00	0.00		C
ATOM	3054	CG		TYR	A	214	28.591	98.589	141.854	0.00	0.00		C
ATOM	3055	CD1		TYR	A	214	28.777	99.663	140.953	0.00	0.00		C
ATOM	3056	CD2		TYR	A	214	28.330	97.302	141.325	0.00	0.00		C
ATOM	3057	CE1		TYR	A	214	28.757	99.451	139.563	0.00	0.00		C
ATOM	3058	CE2		TYR	A	214	28.333	97.083	139.933	0.00	0.00		C
ATOM	3059	CZ		TYR	A	214	28.567	98.156	139.053	0.00	0.00		C
ATOM	3060	OH		TYR	A	214	28.635	97.963	137.717	0.00	0.00		O
ATOM	3061	HN		TYR	A	214	28.862	100.027	145.511	0.00	0.00		H
ATOM	3062	HCA		TYR	A	214	27.313	100.441	143.319	0.00	0.00		H
ATOM	3063	HC	B	TYR	A	214	29.659	99.379	143.465	0.00	0.00		H
ATOM	3064	HC	B	TYR	A	214	28.864	97.869	143.839	0.00	0.00		H
ATOM	3065	HCD1		TYR	A	214	28.952	100.606	141.305	0.00	0.00		H
ATOM	3066	HCD2		TYR	A	214	28.159	96.510	141.951	0.00	0.00		H
ATOM	3067	HCE1		TYR	A	214	28.903	100.235	138.923	0.00	0.00		H
ATOM	3068	HCE2		TYR	A	214	28.169	96.144	139.563	0.00	0.00		H
ATOM	3069	HOH		TYR	A	214	28.709	97.071	137.347	0.00	0.00		H
ATOM	3070	N		LEU	A	215	26.316	97.617	144.847	0.00	0.00		N
ATOM	3071	CA		LEU	A	215	25.199	96.714	144.964	0.00	0.00		C
ATOM	3072	C		LEU	A	215	23.952	97.443	145.309	0.00	0.00		C
ATOM	3073	O		LEU	A	215	22.938	97.340	144.583	0.00	0.00		O
ATOM	3074	CB		LEU	A	215	25.424	95.601	146.027	0.00	0.00		C
ATOM	3075	CG		LEU	A	215	26.729	94.754	145.854	0.00	0.00		C
ATOM	3076	CD1		LEU	A	215	27.638	94.919	147.098	0.00	0.00		C
ATOM	3077	CD2		LEU	A	215	26.445	93.248	145.613	0.00	0.00		C
ATOM	3078	HN		LEU	A	215	27.123	97.407	145.343	0.00	0.00		H
ATOM	3079	HCA		LEU	A	215	25.080	96.222	143.997	0.00	0.00		H
ATOM	3080	HC	B	LEU	A	215	25.400	96.060	147.021	0.00	0.00		H
ATOM	3081	HC	B	LEU	A	215	24.556	94.939	145.992	0.00	0.00		H
ATOM	3082	HCD1		LEU	A	215	28.025	95.939	147.143	0.00	0.00		H
ATOM	3083	HCD1		LEU	A	215	27.078	94.723	148.011	0.00	0.00		H
ATOM	3084	HCD1		LEU	A	215	28.467	94.217	147.064	0.00	0.00		H
ATOM	3085	HCD2		LEU	A	215	25.719	93.114	144.808	0.00	0.00		H
ATOM	3086	HCD2		LEU	A	215	27.362	92.736	145.324	0.00	0.00		H
ATOM	3087	HCD2		LEU	A	215	26.065	92.780	146.521	0.00	0.00		H
ATOM	3088	HCG		LEU	A	215	27.290	95.105	144.981	0.00	0.00		H
ATOM	3089	N		ALA	A	216	23.970	98.254	146.390	0.00	0.00		N
ATOM	3090	CA		ALA	A	216	22.912	99.094	146.848	0.00	0.00		C
ATOM	3091	C		ALA	A	216	22.345	99.938	145.767	0.00	0.00		C
ATOM	3092	O		ALA	A	216	21.139	99.803	145.456	0.00	0.00		O
ATOM	3093	CB		ALA	A	216	23.479	99.936	148.015	0.00	0.00		C
ATOM	3094	HN		ALA	A	216	24.796	98.267	146.897	0.00	0.00		H
ATOM	3095	HCA		ALA	A	216	22.119	98.457	147.246	0.00	0.00		H
ATOM	3096	HC	B	ALA	A	216	23.650	99.292	148.878	0.00	0.00		H
ATOM	3097	HC	B	ALA	A	216	24.425	100.400	147.738	0.00	0.00		H
ATOM	3098	HC	B	ALA	A	216	22.793	100.731	148.306	0.00	0.00		H
ATOM	3099	N		LEU	A	217	23.121	100.809	145.089	0.00	0.00		N
ATOM	3100	CA		LEU	A	217	22.645	101.654	144.033	0.00	0.00		C
ATOM	3101	C		LEU	A	217	22.103	100.896	142.867	0.00	0.00		C
ATOM	3102	O		LEU	A	217	20.947	101.148	142.447	0.00	0.00		O
ATOM	3103	CB		LEU	A	217	23.812	102.610	143.664	0.00	0.00		C
ATOM	3104	CG		LEU	A	217	23.539	103.624	142.514	0.00	0.00		C
ATOM	3105	CD1		LEU	A	217	22.211	104.412	142.674	0.00	0.00		C
ATOM	3106	CD2		LEU	A	217	24.744	104.594	142.401	0.00	0.00		C
ATOM	3107	HN		LEU	A	217	24.050	100.868	145.329	0.00	0.00		H
ATOM	3108	HCA		LEU	A	217	21.842	102.267	144.454	0.00	0.00		H
ATOM	3109	HC	B	LEU	A	217	24.079	103.171	144.565	0.00	0.00		H
ATOM	3110	HC	B	LEU	A	217	24.684	102.008	143.387	0.00	0.00		H
ATOM	3111	HCD1		LEU	A	217	21.349	103.750	142.606	0.00	0.00		H
ATOM	3112	HCD1		LEU	A	217	22.178	104.921	143.636	0.00	0.00		H
ATOM	3113	HCD1		LEU	A	217	22.105	105.142	141.874	0.00	0.00		H
ATOM	3114	HCD2		LEU	A	217	25.654	104.041	142.168	0.00	0.00		H
ATOM	3115	HCD2		LEU	A	217	24.583	105.314	141.607	0.00	0.00		H
ATOM	3116	HCD2		LEU	A	217	24.894	105.145	143.331	0.00	0.00		H
ATOM	3117	HCG		LEU	A	217	23.475	103.057	141.580	0.00	0.00		H
ATOM	3118	N		VAL	A	218	22.834	99.925	142.274	0.00	0.00		N



ATOM	3119	CA	VAL	A	218	22.464	99.185	141.097	0.00	0.00	C
ATOM	3120	C	VAL	A	218	21.249	98.347	141.333	0.00	0.00	C
ATOM	3121	O	VAL	A	218	20.401	98.264	140.408	0.00	0.00	O
ATOM	3122	CB	VAL	A	218	23.722	98.409	140.573	0.00	0.00	C
ATOM	3123	CG1	VAL	A	218	23.431	97.497	139.350	0.00	0.00	C
ATOM	3124	CG2	VAL	A	218	24.877	99.375	140.175	0.00	0.00	C
ATOM	3125	HN	VAL	A	218	23.670	99.691	142.676	0.00	0.00	H
ATOM	3126	HCA	VAL	A	218	22.205	99.917	140.323	0.00	0.00	H
ATOM	3127	HCB	VAL	A	218	24.092	97.774	141.381	0.00	0.00	H
ATOM	3128	HCG1	VAL	A	218	22.672	96.750	139.585	0.00	0.00	H
ATOM	3129	HCG1	VAL	A	218	23.089	98.096	138.509	0.00	0.00	H
ATOM	3130	HCG1	VAL	A	218	24.335	96.974	139.037	0.00	0.00	H
ATOM	3131	HCG2	VAL	A	218	24.584	99.975	139.314	0.00	0.00	H
ATOM	3132	HCG2	VAL	A	218	25.140	100.049	140.990	0.00	0.00	H
ATOM	3133	HCG2	VAL	A	218	25.771	98.808	139.913	0.00	0.00	H
ATOM	3134	N	THR	A	219	20.989	97.732	142.520	0.00	0.00	N
ATOM	3135	CA	THR	A	219	19.718	97.148	142.871	0.00	0.00	C
ATOM	3136	C	THR	A	219	18.667	98.196	143.002	0.00	0.00	C
ATOM	3137	O	THR	A	219	17.616	98.078	142.339	0.00	0.00	O
ATOM	3138	CB	THR	A	219	19.755	96.171	144.090	0.00	0.00	C
ATOM	3139	CG2	THR	A	219	19.677	96.789	145.504	0.00	0.00	C
ATOM	3140	OG1	THR	A	219	18.650	95.278	143.982	0.00	0.00	O
ATOM	3141	HN	THR	A	219	21.674	97.698	143.186	0.00	0.00	H
ATOM	3142	HCA	THR	A	219	19.451	96.501	142.031	0.00	0.00	H
ATOM	3143	HCB	THR	A	219	20.666	95.570	144.025	0.00	0.00	H
ATOM	3144	HCG2	THR	A	219	20.527	97.437	145.670	0.00	0.00	H
ATOM	3145	HCG2	THR	A	219	18.754	97.352	145.637	0.00	0.00	H
ATOM	3146	HCG2	THR	A	219	19.701	96.012	146.264	0.00	0.00	H
ATOM	3147	HOG1	THR	A	219	18.765	94.622	144.698	0.00	0.00	H
ATOM	3148	N	SER	A	220	18.802	99.303	143.775	0.00	0.00	N
ATOM	3149	CA	SER	A	220	17.784	100.315	143.948	0.00	0.00	C
ATOM	3150	C	SER	A	220	17.244	100.876	142.685	0.00	0.00	C
ATOM	3151	O	SER	A	220	15.998	100.976	142.547	0.00	0.00	O
ATOM	3152	CB	SER	A	220	18.328	101.480	144.798	0.00	0.00	C
ATOM	3153	OG	SER	A	220	18.652	101.007	146.095	0.00	0.00	O
ATOM	3154	HN	SER	A	220	19.611	99.412	144.279	0.00	0.00	H
ATOM	3155	HCA	SER	A	220	16.962	99.855	144.505	0.00	0.00	H
ATOM	3156	HCB	SER	A	220	19.216	101.925	144.343	0.00	0.00	H
ATOM	3157	HCB	SER	A	220	17.576	102.261	144.890	0.00	0.00	H
ATOM	3158	HOG	SER	A	220	19.492	100.557	145.948	0.00	0.00	H
ATOM	3159	N	LEU	A	221	18.129	101.242	141.727	0.00	0.00	N
ATOM	3160	CA	LEU	A	221	17.844	101.714	140.400	0.00	0.00	C
ATOM	3161	C	LEU	A	221	17.089	100.753	139.549	0.00	0.00	C
ATOM	3162	O	LEU	A	221	16.521	101.184	138.518	0.00	0.00	O
ATOM	3163	CB	LEU	A	221	19.226	102.113	139.787	0.00	0.00	C
ATOM	3164	CG	LEU	A	221	19.277	102.628	138.313	0.00	0.00	C
ATOM	3165	CD1	LEU	A	221	18.337	103.827	138.033	0.00	0.00	C
ATOM	3166	CD2	LEU	A	221	20.725	103.042	137.938	0.00	0.00	C
ATOM	3167	HN	LEU	A	221	19.058	101.173	141.964	0.00	0.00	H
ATOM	3168	HCA	LEU	A	221	17.230	102.608	140.496	0.00	0.00	H
ATOM	3169	HCB	LEU	A	221	19.671	102.878	140.430	0.00	0.00	H
ATOM	3170	HCB	LEU	A	221	19.878	101.234	139.839	0.00	0.00	H
ATOM	3171	HCD1	LEU	A	221	18.649	104.700	138.601	0.00	0.00	H
ATOM	3172	HCD1	LEU	A	221	18.369	104.074	136.973	0.00	0.00	H
ATOM	3173	HCD1	LEU	A	221	17.306	103.596	138.289	0.00	0.00	H
ATOM	3174	HCD2	LEU	A	221	21.434	102.246	138.165	0.00	0.00	H
ATOM	3175	HCD2	LEU	A	221	20.796	103.267	136.871	0.00	0.00	H
ATOM	3176	HCD2	LEU	A	221	21.017	103.927	138.503	0.00	0.00	H
ATOM	3177	HCG	LEU	A	221	18.989	101.804	137.652	0.00	0.00	H
ATOM	3178	N	SER	A	222	16.965	99.446	139.868	0.00	0.00	N
ATOM	3179	CA	SER	A	222	16.330	98.440	139.071	0.00	0.00	C
ATOM	3180	C	SER	A	222	15.118	97.911	139.739	0.00	0.00	C
ATOM	3181	O	SER	A	222	14.117	97.589	139.060	0.00	0.00	O
ATOM	3182	CB	SER	A	222	17.368	97.336	138.791	0.00	0.00	C
ATOM	3183	OG	SER	A	222	17.982	96.777	139.944	0.00	0.00	O
ATOM	3184	HN	SER	A	222	17.309	99.127	140.704	0.00	0.00	H
ATOM	3185	HCA	SER	A	222	16.018	98.835	138.098	0.00	0.00	H
ATOM	3186	HCB	SER	A	222	16.876	96.521	138.298	0.00	0.00	H
ATOM	3187	HCB	SER	A	222	18.127	97.721	138.115	0.00	0.00	H
ATOM	3188	HOG	SER	A	222	18.774	97.310	140.113	0.00	0.00	H
ATOM	3189	N	CYS	A	223	15.077	97.781	141.078	0.00	0.00	N
ATOM	3190	CA	CYS	A	223	13.920	97.469	141.860	0.00	0.00	C
ATOM	3191	C	CYS	A	223	12.949	98.596	141.885	0.00	0.00	C
ATOM	3192	O	CYS	A	223	11.732	98.342	141.721	0.00	0.00	O
ATOM	3193	CB	CYS	A	223	14.354	97.088	143.296	0.00	0.00	C
ATOM	3194	SG	CYS	A	223	15.538	95.724	143.291	0.00	0.00	S
ATOM	3195	HN	CYS	A	223	15.905	97.917	141.531	0.00	0.00	H
ATOM	3196	HCA	CYS	A	223	13.429	96.588	141.429	0.00	0.00	H
ATOM	3197	HCB	CYS	A	223	14.811	97.939	143.807	0.00	0.00	H
ATOM	3198	HCB	CYS	A	223	13.475	96.774	143.861	0.00	0.00	H

ATOM	3199	HSG	CYS	A	223	16.513	96.529	142.823	0.00	0.00	H
ATOM	3200	N	GLY	A	224	13.356	99.871	142.109	0.00	0.00	N
ATOM	3201	CA	GLY	A	224	12.512	101.021	142.235	0.00	0.00	C
ATOM	3202	C	GLY	A	224	12.413	101.418	143.653	0.00	0.00	C
ATOM	3203	O	GLY	A	224	11.279	101.540	144.172	0.00	0.00	O
ATOM	3204	HN	GLY	A	224	14.290	100.058	142.223	0.00	0.00	H
ATOM	3205	HCA	GLY	A	224	12.964	101.841	141.675	0.00	0.00	H
ATOM	3206	HCA	GLY	A	224	11.515	100.849	141.819	0.00	0.00	H
ATOM	3207	N	ALA	A	225	13.538	101.616	144.381	0.00	0.00	N
ATOM	3208	CA	ALA	A	225	13.530	101.952	145.788	0.00	0.00	C
ATOM	3209	C	ALA	A	225	13.008	103.311	146.109	0.00	0.00	C
ATOM	3210	O	ALA	A	225	12.966	104.195	145.221	0.00	0.00	O
ATOM	3211	CB	ALA	A	225	14.955	101.793	146.362	0.00	0.00	C
ATOM	3212	HN	ALA	A	225	14.374	101.492	143.912	0.00	0.00	H
ATOM	3213	HCA	ALA	A	225	12.888	101.225	146.297	0.00	0.00	H
ATOM	3214	HCB	ALA	A	225	15.603	102.575	145.970	0.00	0.00	H
ATOM	3215	HCB	ALA	A	225	14.944	101.876	147.451	0.00	0.00	H
ATOM	3216	HCB	ALA	A	225	15.364	100.817	146.099	0.00	0.00	H
ATOM	3217	N	ASP	A	226	12.663	103.621	147.381	0.00	0.00	N
ATOM	3218	CA	ASP	A	226	12.189	104.891	147.854	0.00	0.00	C
ATOM	3219	C	ASP	A	226	13.312	105.702	148.407	0.00	0.00	C
ATOM	3220	O	ASP	A	226	13.281	106.946	148.245	0.00	0.00	O
ATOM	3221	CB	ASP	A	226	11.066	104.685	148.910	0.00	0.00	C
ATOM	3222	CG	ASP	A	226	9.913	103.915	148.414	0.00	0.00	C
ATOM	3223	OD1	ASP	A	226	8.821	104.477	148.187	0.00	0.00	O
ATOM	3224	OD2	ASP	A	226	9.993	102.678	148.247	0.00	0.00	O
ATOM	3225	HN	ASP	A	226	12.743	102.938	148.046	0.00	0.00	H
ATOM	3226	HCA	ASP	A	226	11.743	105.454	147.024	0.00	0.00	H
ATOM	3227	HCB	ASP	A	226	11.457	104.167	149.782	0.00	0.00	H
ATOM	3228	HCB	ASP	A	226	10.710	105.664	149.243	0.00	0.00	H
ATOM	3229	N	TRP	A	227	14.350	105.136	149.078	0.00	0.00	N
ATOM	3230	CA	TRP	A	227	15.508	105.846	149.577	0.00	0.00	C
ATOM	3231	C	TRP	A	227	16.723	104.978	149.663	0.00	0.00	C
ATOM	3232	O	TRP	A	227	16.629	103.760	149.951	0.00	0.00	O
ATOM	3233	CB	TRP	A	227	15.155	106.541	150.925	0.00	0.00	C
ATOM	3234	CG	TRP	A	227	16.198	107.460	151.442	0.00	0.00	C
ATOM	3235	CD1	TRP	A	227	17.421	107.075	151.996	0.00	0.00	C
ATOM	3236	CD2	TRP	A	227	16.188	108.856	151.505	0.00	0.00	C
ATOM	3237	CE2	TRP	A	227	17.406	109.249	152.061	0.00	0.00	C
ATOM	3238	CE3	TRP	A	227	15.233	109.820	151.128	0.00	0.00	C
ATOM	3239	NE1	TRP	A	227	18.130	108.161	152.338	0.00	0.00	N
ATOM	3240	CZ2	TRP	A	227	17.725	110.600	152.258	0.00	0.00	C
ATOM	3241	CZ3	TRP	A	227	15.535	111.185	151.332	0.00	0.00	C
ATOM	3242	CH2	TRP	A	227	16.773	111.574	151.890	0.00	0.00	C
ATOM	3243	HN	TRP	A	227	14.287	104.182	149.238	0.00	0.00	H
ATOM	3244	HNE1	TRP	A	227	19.018	108.156	152.727	0.00	0.00	H
ATOM	3245	HCA	TRP	A	227	15.744	106.637	148.854	0.00	0.00	H
ATOM	3246	HCB	TRP	A	227	14.229	107.103	150.793	0.00	0.00	H
ATOM	3247	HCB	TRP	A	227	14.960	105.783	151.680	0.00	0.00	H
ATOM	3248	HCD1	TRP	A	227	17.735	106.112	152.119	0.00	0.00	H
ATOM	3249	HCE3	TRP	A	227	14.340	109.541	150.719	0.00	0.00	H
ATOM	3250	HCH2	TRP	A	227	16.983	112.565	152.025	0.00	0.00	H
ATOM	3251	HCZ2	TRP	A	227	18.624	110.866	152.657	0.00	0.00	H
ATOM	3252	HCZ3	TRP	A	227	14.858	111.903	151.074	0.00	0.00	H
ATOM	3253	N	VAL	A	228	17.935	105.536	149.414	0.00	0.00	N
ATOM	3254	CA	VAL	A	228	19.204	104.865	149.293	0.00	0.00	C
ATOM	3255	C	VAL	A	228	20.240	105.506	150.154	0.00	0.00	C
ATOM	3256	O	VAL	A	228	20.516	106.715	149.965	0.00	0.00	O
ATOM	3257	CB	VAL	A	228	19.612	104.898	147.778	0.00	0.00	C
ATOM	3258	CG1	VAL	A	228	21.017	104.298	147.500	0.00	0.00	C
ATOM	3259	CG2	VAL	A	228	18.567	104.154	146.913	0.00	0.00	C
ATOM	3260	HN	VAL	A	228	17.942	106.493	149.255	0.00	0.00	H
ATOM	3261	HCA	VAL	A	228	19.113	103.817	149.590	0.00	0.00	H
ATOM	3262	HCB	VAL	A	228	19.629	105.942	147.442	0.00	0.00	H
ATOM	3263	HCG1	VAL	A	228	21.082	103.272	147.868	0.00	0.00	H
ATOM	3264	HCG1	VAL	A	228	21.238	104.299	146.430	0.00	0.00	H
ATOM	3265	HCG1	VAL	A	228	21.777	104.902	147.992	0.00	0.00	H
ATOM	3266	HCG2	VAL	A	228	18.451	103.135	147.274	0.00	0.00	H
ATOM	3267	HCG2	VAL	A	228	17.595	104.637	146.976	0.00	0.00	H
ATOM	3268	HCG2	VAL	A	228	18.870	104.143	145.865	0.00	0.00	H
ATOM	3269	N	PHE	A	229	20.923	104.782	151.077	0.00	0.00	N
ATOM	3270	CA	PHE	A	229	22.082	105.236	151.817	0.00	0.00	C
ATOM	3271	C	PHE	A	229	23.337	104.576	151.327	0.00	0.00	C
ATOM	3272	O	PHE	A	229	23.441	103.328	151.455	0.00	0.00	O
ATOM	3273	CB	PHE	A	229	21.875	104.977	153.336	0.00	0.00	C
ATOM	3274	CG	PHE	A	229	20.684	105.628	153.941	0.00	0.00	C
ATOM	3275	CD1	PHE	A	229	19.485	104.906	154.146	0.00	0.00	C
ATOM	3276	CD2	PHE	A	229	20.756	106.964	154.395	0.00	0.00	C
ATOM	3277	CE1	PHE	A	229	18.414	105.478	154.857	0.00	0.00	C
ATOM	3278	CE2	PHE	A	229	19.683	107.539	155.100	0.00	0.00	C

ATOM	3279	CZ	PHE	A	229	18.517	106.793	155.344	0.00	0.00		C
ATOM	3280	HN	PHE	A	229	20.581	103.900	151.248	0.00	0.00		H
ATOM	3281	HCA	PHE	A	229	22.210	106.317	151.699	0.00	0.00		H
ATOM	3282	HCN	PHE	A	229	21.825	103.904	153.514	0.00	0.00		H
ATOM	3283	HCN	PHE	A	229	22.757	105.324	153.876	0.00	0.00		H
ATOM	3284	HCD1	PHE	A	229	19.387	103.957	153.783	0.00	0.00		H
ATOM	3285	HCD2	PHE	A	229	21.602	107.514	154.232	0.00	0.00		H
ATOM	3286	HCE1	PHE	A	229	17.560	104.941	155.018	0.00	0.00		H
ATOM	3287	HCE2	PHE	A	229	19.748	108.499	155.438	0.00	0.00		H
ATOM	3288	HCZ	PHE	A	229	17.742	107.208	155.865	0.00	0.00		H
ATOM	3289	N	ILE	A	230	24.339	105.318	150.767	0.00	0.00		N
ATOM	3290	CA	ILE	A	230	25.591	104.847	150.201	0.00	0.00		C
ATOM	3291	C	ILE	A	230	26.822	105.563	150.712	0.00	0.00		C
ATOM	3292	O	ILE	A	230	26.805	106.820	150.675	0.00	0.00		O
ATOM	3293	CB	ILE	A	230	25.558	104.888	148.629	0.00	0.00		C
ATOM	3294	CG1	ILE	A	230	25.061	106.249	148.031	0.00	0.00		C
ATOM	3295	CG2	ILE	A	230	24.739	103.691	148.064	0.00	0.00		C
ATOM	3296	CD1	ILE	A	230	25.625	106.557	146.623	0.00	0.00		C
ATOM	3297	HN	ILE	A	230	24.182	106.274	150.710	0.00	0.00		H
ATOM	3298	HCA	ILE	A	230	25.693	103.802	150.477	0.00	0.00		H
ATOM	3299	HCN	ILE	A	230	26.586	104.732	148.282	0.00	0.00		H
ATOM	3300	HCD1	ILE	A	230	26.715	106.595	146.654	0.00	0.00		H
ATOM	3301	HCD1	ILE	A	230	25.314	105.800	145.902	0.00	0.00		H
ATOM	3302	HCD1	ILE	A	230	25.265	107.527	146.280	0.00	0.00		H
ATOM	3303	HCG1	ILE	A	230	23.969	106.263	147.991	0.00	0.00		H
ATOM	3304	HCG1	ILE	A	230	25.358	107.079	148.672	0.00	0.00		H
ATOM	3305	HCG2	ILE	A	230	25.187	102.747	148.370	0.00	0.00		H
ATOM	3306	HCG2	ILE	A	230	23.720	103.709	148.441	0.00	0.00		H
ATOM	3307	HCG2	ILE	A	230	24.712	103.712	146.974	0.00	0.00		H
ATOM	3308	N	PRO	A	231	27.982	104.943	151.132	0.00	0.00		N
ATOM	3309	CA	PRO	A	231	29.165	105.624	151.623	0.00	0.00		C
ATOM	3310	C	PRO	A	231	29.598	106.817	150.900	0.00	0.00		C
ATOM	3311	O	PRO	A	231	29.764	107.868	151.507	0.00	0.00		O
ATOM	3312	CB	PRO	A	231	30.284	104.550	151.628	0.00	0.00		C
ATOM	3313	CG	PRO	A	231	29.547	103.217	151.738	0.00	0.00		C
ATOM	3314	CD	PRO	A	231	28.156	103.518	151.162	0.00	0.00		C
ATOM	3315	HCA	PRO	A	231	28.962	105.903	152.663	0.00	0.00		H
ATOM	3316	HCN	PRO	A	231	30.853	104.546	150.694	0.00	0.00		H
ATOM	3317	HCN	PRO	A	231	30.979	104.694	152.461	0.00	0.00		H
ATOM	3318	HCD	PRO	A	231	28.074	103.106	150.152	0.00	0.00		H
ATOM	3319	HCD	PRO	A	231	27.415	103.056	151.813	0.00	0.00		H
ATOM	3320	HCG	PRO	A	231	30.053	102.424	151.181	0.00	0.00		H
ATOM	3321	HCG	PRO	A	231	29.476	102.919	152.784	0.00	0.00		H
ATOM	3322	N	GLU	A	232	29.822	106.749	149.600	0.00	0.00		N
ATOM	3323	CA	GLU	A	232	30.294	107.789	148.741	0.00	0.00		C
ATOM	3324	C	GLU	A	232	29.461	109.022	148.720	0.00	0.00		C
ATOM	3325	O	GLU	A	232	30.011	110.056	148.270	0.00	0.00		O
ATOM	3326	CB	GLU	A	232	30.449	107.226	147.292	0.00	0.00		C
ATOM	3327	CG	GLU	A	232	31.331	105.945	147.142	0.00	0.00		C
ATOM	3328	CD	GLU	A	232	30.595	104.665	147.170	0.00	0.00		C
ATOM	3329	OE1	GLU	A	232	29.891	104.316	148.139	0.00	0.00		O
ATOM	3330	OE2	GLU	A	232	30.711	103.823	146.253	0.00	0.00		O
ATOM	3331	HN	GLU	A	232	29.742	105.894	149.180	0.00	0.00		H
ATOM	3332	HCA	GLU	A	232	31.288	108.073	149.100	0.00	0.00		H
ATOM	3333	HCN	GLU	A	232	29.457	107.033	146.875	0.00	0.00		H
ATOM	3334	HCN	GLU	A	232	30.904	108.011	146.678	0.00	0.00		H
ATOM	3335	HCG	GLU	A	232	31.863	106.002	146.188	0.00	0.00		H
ATOM	3336	HCG	GLU	A	232	32.088	105.918	147.927	0.00	0.00		H
ATOM	3337	N	CYS	A	233	28.171	109.070	149.145	0.00	0.00		N
ATOM	3338	CA	CYS	A	233	27.352	110.253	149.074	0.00	0.00		C
ATOM	3339	C	CYS	A	233	26.501	110.312	150.296	0.00	0.00		C
ATOM	3340	O	CYS	A	233	25.412	109.683	150.271	0.00	0.00		O
ATOM	3341	CB	CYS	A	233	26.565	110.312	147.735	0.00	0.00		C
ATOM	3342	SG	CYS	A	233	25.905	111.967	147.427	0.00	0.00		S
ATOM	3343	HN	CYS	A	233	27.777	108.284	149.546	0.00	0.00		H
ATOM	3344	HCA	CYS	A	233	27.990	111.138	149.069	0.00	0.00		H
ATOM	3345	HCN	CYS	A	233	27.228	110.067	146.905	0.00	0.00		H
ATOM	3346	HCN	CYS	A	233	25.745	109.594	147.729	0.00	0.00		H
ATOM	3347	HSG	CYS	A	233	27.146	112.520	147.365	0.00	0.00		H
ATOM	3348	N	PRO	A	234	26.867	110.949	151.453	0.00	0.00		N
ATOM	3349	CA	PRO	A	234	26.043	110.929	152.632	0.00	0.00		C
ATOM	3350	C	PRO	A	234	24.839	111.774	152.552	0.00	0.00		C
ATOM	3351	O	PRO	A	234	24.842	112.698	151.743	0.00	0.00		O
ATOM	3352	CB	PRO	A	234	26.997	111.365	153.764	0.00	0.00		C
ATOM	3353	CG	PRO	A	234	28.032	112.243	153.065	0.00	0.00		C
ATOM	3354	CD	PRO	A	234	28.091	111.671	151.640	0.00	0.00		C
ATOM	3355	HCA	PRO	A	234	25.756	109.890	152.814	0.00	0.00		H
ATOM	3356	HCN	PRO	A	234	26.493	111.907	154.566	0.00	0.00		H
ATOM	3357	HCN	PRO	A	234	27.500	110.490	154.184	0.00	0.00		H
ATOM	3358	HCD	PRO	A	234	28.191	112.493	150.926	0.00	0.00		H

ATOM	3359	HCD	PRO	A	234	28.942	110.990	151.542	0.00	0.00		H
ATOM	3360	HCG	PRO	A	234	27.698	113.285	153.048	0.00	0.00		H
ATOM	3361	HCG	PRO	A	234	28.995	112.182	153.570	0.00	0.00		H
ATOM	3362	N	PRO	A	235	23.764	111.595	153.325	0.00	0.00		N
ATOM	3363	CA	PRO	A	235	22.573	112.416	153.255	0.00	0.00		C
ATOM	3364	C	PRO	A	235	22.708	113.680	153.997	0.00	0.00		C
ATOM	3365	O	PRO	A	235	22.046	113.909	154.999	0.00	0.00		O
ATOM	3366	CB	PRO	A	235	21.505	111.428	153.779	0.00	0.00		C
ATOM	3367	CG	PRO	A	235	22.240	110.700	154.908	0.00	0.00		C
ATOM	3368	CD	PRO	A	235	23.637	110.539	154.298	0.00	0.00		C
ATOM	3369	HCA	PRO	A	235	22.312	112.661	152.219	0.00	0.00		H
ATOM	3370	HCB	PRO	A	235	20.607	111.925	154.126	0.00	0.00		H
ATOM	3371	HCB	PRO	A	235	21.224	110.718	152.993	0.00	0.00		H
ATOM	3372	HCD	PRO	A	235	24.400	110.604	155.076	0.00	0.00		H
ATOM	3373	HCD	PRO	A	235	23.696	109.560	153.812	0.00	0.00		H
ATOM	3374	HCG	PRO	A	235	22.283	111.318	155.808	0.00	0.00		H
ATOM	3375	HCG	PRO	A	235	21.781	109.745	155.156	0.00	0.00		H
ATOM	3376	N	ASP	A	236	23.588	114.569	153.578	0.00	0.00		N
ATOM	3377	CA	ASP	A	236	23.925	115.850	154.149	0.00	0.00		C
ATOM	3378	C	ASP	A	236	22.845	116.648	154.814	0.00	0.00		C
ATOM	3379	O	ASP	A	236	21.752	116.847	154.235	0.00	0.00		O
ATOM	3380	CB	ASP	A	236	24.643	116.725	153.077	0.00	0.00		C
ATOM	3381	CG	ASP	A	236	26.006	116.260	152.785	0.00	0.00		C
ATOM	3382	OD1	ASP	A	236	26.199	115.254	152.073	0.00	0.00		O
ATOM	3383	OD2	ASP	A	236	26.995	116.844	153.278	0.00	0.00		O
ATOM	3384	HN	ASP	A	236	24.129	114.245	152.852	0.00	0.00		H
ATOM	3385	HCA	ASP	A	236	24.660	115.619	154.919	0.00	0.00		H
ATOM	3386	HCB	ASP	A	236	24.064	116.742	152.151	0.00	0.00		H
ATOM	3387	HCB	ASP	A	236	24.718	117.759	153.427	0.00	0.00		H
ATOM	3388	N	ASP	A	237	23.119	117.224	156.012	0.00	0.00		N
ATOM	3389	CA	ASP	A	237	22.344	118.186	156.745	0.00	0.00		C
ATOM	3390	C	ASP	A	237	21.161	117.587	157.425	0.00	0.00		C
ATOM	3391	O	ASP	A	237	21.322	117.024	158.534	0.00	0.00		O
ATOM	3392	CB	ASP	A	237	22.057	119.485	155.928	0.00	0.00		C
ATOM	3393	CG	ASP	A	237	23.280	120.100	155.387	0.00	0.00		C
ATOM	3394	OD1	ASP	A	237	24.191	120.486	156.148	0.00	0.00		O
ATOM	3395	OD2	ASP	A	237	23.447	120.246	154.158	0.00	0.00		O
ATOM	3396	HN	ASP	A	237	23.968	116.980	156.407	0.00	0.00		H
ATOM	3397	HCA	ASP	A	237	23.001	118.505	157.562	0.00	0.00		H
ATOM	3398	HCB	ASP	A	237	21.374	119.270	155.104	0.00	0.00		H
ATOM	3399	HCB	ASP	A	237	21.573	120.223	156.572	0.00	0.00		H
ATOM	3400	N	ASN	A	238	19.913	117.690	156.915	0.00	0.00		N
ATOM	3401	CA	ASN	A	238	18.705	117.142	157.472	0.00	0.00		C
ATOM	3402	C	ASN	A	238	18.074	116.298	156.429	0.00	0.00		C
ATOM	3403	O	ASN	A	238	17.807	116.801	155.311	0.00	0.00		O
ATOM	3404	CB	ASN	A	238	17.755	118.275	157.964	0.00	0.00		C
ATOM	3405	CG	ASN	A	238	18.209	119.021	159.156	0.00	0.00		C
ATOM	3406	ND2	ASN	A	238	19.397	118.843	159.743	0.00	0.00		N
ATOM	3407	OD1	ASN	A	238	17.460	119.877	159.674	0.00	0.00		O
ATOM	3408	HN	ASN	A	238	19.829	118.166	156.074	0.00	0.00		H
ATOM	3409	HND2	ASN	A	238	20.020	118.229	159.365	0.00	0.00		H
ATOM	3410	HND2	ASN	A	238	19.622	119.349	160.537	0.00	0.00		H
ATOM	3411	HCA	ASN	A	238	18.920	116.499	158.334	0.00	0.00		H
ATOM	3412	HCB	ASN	A	238	17.588	118.992	157.157	0.00	0.00		H
ATOM	3413	HCB	ASN	A	238	16.789	117.831	158.220	0.00	0.00		H
ATOM	3414	N	TRP	A	239	17.807	114.999	156.688	0.00	0.00		N
ATOM	3415	CA	TRP	A	239	17.338	114.022	155.742	0.00	0.00		C
ATOM	3416	C	TRP	A	239	16.150	113.299	156.247	0.00	0.00		C
ATOM	3417	O	TRP	A	239	15.356	112.768	155.441	0.00	0.00		O
ATOM	3418	CB	TRP	A	239	18.496	113.050	155.391	0.00	0.00		C
ATOM	3419	CG	TRP	A	239	18.739	111.948	156.358	0.00	0.00		C
ATOM	3420	CD1	TRP	A	239	18.026	110.746	156.419	0.00	0.00		C
ATOM	3421	CD2	TRP	A	239	19.698	111.865	157.367	0.00	0.00		C
ATOM	3422	CE2	TRP	A	239	19.534	110.625	157.988	0.00	0.00		C
ATOM	3423	CE3	TRP	A	239	20.697	112.758	157.800	0.00	0.00		C
ATOM	3424	NE1	TRP	A	239	18.515	109.978	157.407	0.00	0.00		N
ATOM	3425	CZ2	TRP	A	239	20.365	110.218	159.043	0.00	0.00		C
ATOM	3426	CZ3	TRP	A	239	21.550	112.356	158.852	0.00	0.00		C
ATOM	3427	CH2	TRP	A	239	21.387	111.094	159.467	0.00	0.00		C
ATOM	3428	HN	TRP	A	239	17.919	114.712	157.598	0.00	0.00		H
ATOM	3429	HNE1	TRP	A	239	18.190	109.099	157.658	0.00	0.00		H
ATOM	3430	HCA	TRP	A	239	17.036	114.517	154.813	0.00	0.00		H
ATOM	3431	HCB	TRP	A	239	18.279	112.597	154.422	0.00	0.00		H
ATOM	3432	HCB	TRP	A	239	19.409	113.634	155.261	0.00	0.00		H
ATOM	3433	HCD1	TRP	A	239	17.250	110.485	155.805	0.00	0.00		H
ATOM	3434	HCE3	TRP	A	239	20.805	113.676	157.367	0.00	0.00		H
ATOM	3435	HCH2	TRP	A	239	22.008	110.815	160.230	0.00	0.00		H
ATOM	3436	HCZ2	TRP	A	239	20.230	109.309	159.489	0.00	0.00		H
ATOM	3437	HCZ3	TRP	A	239	22.286	112.987	159.175	0.00	0.00		H
ATOM	3438	N	GLU	A	240	15.974	113.171	157.577	0.00	0.00		N

ATOM	3439	CA	GLU	A	240	14.936	112.507	158.282	0.00	0.00		C
ATOM	3440	C	GLU	A	240	13.614	113.017	157.834	0.00	0.00		C
ATOM	3441	O	GLU	A	240	12.772	112.254	157.306	0.00	0.00		O
ATOM	3442	CB	GLU	A	240	15.207	112.760	159.801	0.00	0.00		C
ATOM	3443	CG	GLU	A	240	16.596	112.285	160.346	0.00	0.00		C
ATOM	3444	CD	GLU	A	240	17.777	113.168	160.176	0.00	0.00		C
ATOM	3445	OE1	GLU	A	240	17.805	114.199	159.464	0.00	0.00		O
ATOM	3446	OE2	GLU	A	240	18.836	112.881	160.770	0.00	0.00		O
ATOM	3447	HN	GLU	A	240	16.637	113.552	158.141	0.00	0.00		H
ATOM	3448	HCA	GLU	A	240	15.007	111.437	158.072	0.00	0.00		H
ATOM	3449	HCB	GLU	A	240	15.094	113.823	160.035	0.00	0.00		H
ATOM	3450	HCB	GLU	A	240	14.430	112.233	160.358	0.00	0.00		H
ATOM	3451	HCG	GLU	A	240	16.486	112.135	161.423	0.00	0.00		H
ATOM	3452	HCG	GLU	A	240	16.846	111.317	159.909	0.00	0.00		H
ATOM	3453	N	ASP	A	241	13.393	114.344	157.919	0.00	0.00		N
ATOM	3454	CA	ASP	A	241	12.339	115.121	157.354	0.00	0.00		C
ATOM	3455	C	ASP	A	241	12.095	114.823	155.914	0.00	0.00		C
ATOM	3456	O	ASP	A	241	10.932	114.531	155.563	0.00	0.00		O
ATOM	3457	CB	ASP	A	241	12.713	116.619	157.585	0.00	0.00		C
ATOM	3458	CG	ASP	A	241	12.855	116.993	159.009	0.00	0.00		C
ATOM	3459	OD1	ASP	A	241	13.688	116.440	159.765	0.00	0.00		O
ATOM	3460	OD2	ASP	A	241	12.105	117.839	159.535	0.00	0.00		O
ATOM	3461	HN	ASP	A	241	14.002	114.856	158.464	0.00	0.00		H
ATOM	3462	HCA	ASP	A	241	11.422	114.907	157.913	0.00	0.00		H
ATOM	3463	HCB	ASP	A	241	13.657	116.850	157.086	0.00	0.00		H
ATOM	3464	HCB	ASP	A	241	11.941	117.249	157.136	0.00	0.00		H
ATOM	3465	N	HSE	A	242	13.093	114.823	154.999	0.00	0.00		N
ATOM	3466	CA	HSE	A	242	12.943	114.562	153.586	0.00	0.00		C
ATOM	3467	C	HSE	A	242	12.440	113.183	153.317	0.00	0.00		C
ATOM	3468	O	HSE	A	242	11.445	113.008	152.578	0.00	0.00		O
ATOM	3469	CB	HSE	A	242	14.304	114.837	152.877	0.00	0.00		C
ATOM	3470	CG	HSE	A	242	14.248	114.940	151.404	0.00	0.00		C
ATOM	3471	CD2	HSE	A	242	15.344	115.092	150.562	0.00	0.00		C
ATOM	3472	ND1	HSE	A	242	13.148	114.929	150.632	0.00	0.00		N
ATOM	3473	CE1	HSE	A	242	13.545	115.069	149.357	0.00	0.00		C
ATOM	3474	NE2	HSE	A	242	14.879	115.165	149.311	0.00	0.00		N
ATOM	3475	HN	HSE	A	242	13.987	114.975	155.335	0.00	0.00		H
ATOM	3476	HNE2	HSE	A	242	15.411	115.272	148.507	0.00	0.00		H
ATOM	3477	HCA	HSE	A	242	12.214	115.281	153.201	0.00	0.00		H
ATOM	3478	HCB	HSE	A	242	14.712	115.782	153.243	0.00	0.00		H
ATOM	3479	HCB	HSE	A	242	15.013	114.048	153.134	0.00	0.00		H
ATOM	3480	HCD2	HSE	A	242	16.325	115.141	150.843	0.00	0.00		H
ATOM	3481	HCE1	HSE	A	242	12.922	115.098	148.546	0.00	0.00		H
ATOM	3482	N	LEU	A	243	13.026	112.126	153.922	0.00	0.00		N
ATOM	3483	CA	LEU	A	243	12.591	110.755	153.895	0.00	0.00		C
ATOM	3484	C	LEU	A	243	11.176	110.613	154.342	0.00	0.00		C
ATOM	3485	O	LEU	A	243	10.335	110.067	153.586	0.00	0.00		O
ATOM	3486	CB	LEU	A	243	13.601	109.937	154.763	0.00	0.00		C
ATOM	3487	CG	LEU	A	243	13.225	108.461	155.104	0.00	0.00		C
ATOM	3488	CD1	LEU	A	243	12.986	107.600	153.840	0.00	0.00		C
ATOM	3489	CD2	LEU	A	243	14.326	107.810	155.983	0.00	0.00		C
ATOM	3490	HN	LEU	A	243	13.801	112.326	154.441	0.00	0.00		H
ATOM	3491	HCA	LEU	A	243	12.670	110.403	152.862	0.00	0.00		H
ATOM	3492	HCB	LEU	A	243	14.569	109.943	154.251	0.00	0.00		H
ATOM	3493	HCB	LEU	A	243	13.744	110.458	155.712	0.00	0.00		H
ATOM	3494	HCD1	LEU	A	243	13.884	107.586	153.227	0.00	0.00		H
ATOM	3495	HCD1	LEU	A	243	12.739	106.578	154.126	0.00	0.00		H
ATOM	3496	HCD1	LEU	A	243	12.161	107.989	153.245	0.00	0.00		H
ATOM	3497	HCD2	LEU	A	243	15.271	107.757	155.438	0.00	0.00		H
ATOM	3498	HCD2	LEU	A	243	14.482	108.389	156.895	0.00	0.00		H
ATOM	3499	HCD2	LEU	A	243	14.035	106.798	156.272	0.00	0.00		H
ATOM	3500	HCG	LEU	A	243	12.302	108.463	155.692	0.00	0.00		H
ATOM	3501	N	CYS	A	244	10.784	111.090	155.545	0.00	0.00		N
ATOM	3502	CA	CYS	A	244	9.441	111.038	156.061	0.00	0.00		C
ATOM	3503	C	CYS	A	244	8.452	111.744	155.195	0.00	0.00		C
ATOM	3504	O	CYS	A	244	7.366	111.177	154.916	0.00	0.00		O
ATOM	3505	CB	CYS	A	244	9.441	111.572	157.514	0.00	0.00		C
ATOM	3506	SG	CYS	A	244	10.384	110.481	158.607	0.00	0.00		S
ATOM	3507	HN	CYS	A	244	11.457	111.489	156.098	0.00	0.00		H
ATOM	3508	HCA	CYS	A	244	9.142	109.987	156.111	0.00	0.00		H
ATOM	3509	HCB	CYS	A	244	9.865	112.577	157.557	0.00	0.00		H
ATOM	3510	HCB	CYS	A	244	8.421	111.620	157.887	0.00	0.00		H
ATOM	3511	HSG	CYS	A	244	11.536	110.984	158.120	0.00	0.00		H
ATOM	3512	N	ARG	A	245	8.732	112.959	154.663	0.00	0.00		N
ATOM	3513	CA	ARG	A	245	7.954	113.648	153.673	0.00	0.00		C
ATOM	3514	C	ARG	A	245	7.747	112.799	152.464	0.00	0.00		C
ATOM	3515	O	ARG	A	245	6.570	112.503	152.159	0.00	0.00		O
ATOM	3516	CB	ARG	A	245	8.640	115.002	153.320	0.00	0.00		C
ATOM	3517	CG	ARG	A	245	7.740	115.987	152.518	0.00	0.00		C
ATOM	3518	CD	ARG	A	245	8.533	116.993	151.648	0.00	0.00		C



ATOM	3599	HN	GLU	A	249	4.903	111.826	151.522	0.00	0.00	H
ATOM	3600	HCA	GLU	A	249	2.748	112.457	149.963	0.00	0.00	H
ATOM	3601	HCB	GLU	A	249	5.718	112.278	149.301	0.00	0.00	H
ATOM	3602	HCB	GLU	A	249	4.517	112.866	148.152	0.00	0.00	H
ATOM	3603	HCG	GLU	A	249	3.878	114.710	149.653	0.00	0.00	H
ATOM	3604	HCG	GLU	A	249	4.989	114.146	150.895	0.00	0.00	H
ATOM	3605	N	THR	A	250	4.336	109.724	148.807	0.00	0.00	N
ATOM	3606	CA	THR	A	250	4.132	108.575	147.960	0.00	0.00	C
ATOM	3607	C	THR	A	250	3.058	107.688	148.473	0.00	0.00	C
ATOM	3608	O	THR	A	250	2.247	107.194	147.653	0.00	0.00	O
ATOM	3609	CB	THR	A	250	5.441	107.799	147.628	0.00	0.00	C
ATOM	3610	CG2	THR	A	250	5.952	106.834	148.719	0.00	0.00	C
ATOM	3611	OG1	THR	A	250	5.245	107.038	146.435	0.00	0.00	O
ATOM	3612	HN	THR	A	250	5.190	109.827	149.226	0.00	0.00	H
ATOM	3613	HCA	THR	A	250	3.798	108.984	147.001	0.00	0.00	H
ATOM	3614	HCB	THR	A	250	6.229	108.527	147.423	0.00	0.00	H
ATOM	3615	HCG2	THR	A	250	6.024	107.355	149.668	0.00	0.00	H
ATOM	3616	HCG2	THR	A	250	5.282	105.980	148.836	0.00	0.00	H
ATOM	3617	HCG2	THR	A	250	6.942	106.458	148.456	0.00	0.00	H
ATOM	3618	HOG1	THR	A	250	6.100	106.562	146.312	0.00	0.00	H
ATOM	3619	N	ARG	A	251	2.901	107.456	149.801	0.00	0.00	N
ATOM	3620	CA	ARG	A	251	1.795	106.753	150.388	0.00	0.00	C
ATOM	3621	C	ARG	A	251	0.505	107.404	150.027	0.00	0.00	C
ATOM	3622	O	ARG	A	251	-0.291	106.749	149.308	0.00	0.00	O
ATOM	3623	CB	ARG	A	251	2.030	106.619	151.923	0.00	0.00	C
ATOM	3624	CG	ARG	A	251	0.990	105.757	152.703	0.00	0.00	C
ATOM	3625	CD	ARG	A	251	-0.257	106.534	153.194	0.00	0.00	C
ATOM	3626	NE	ARG	A	251	-1.067	105.709	154.030	0.00	0.00	N
ATOM	3627	CZ	ARG	A	251	-2.217	106.089	154.596	0.00	0.00	C
ATOM	3628	NH1	ARG	A	251	-2.767	107.286	154.458	0.00	0.00	N
ATOM	3629	NH2	ARG	A	251	-2.842	105.200	155.345	0.00	0.00	N
ATOM	3630	HN	ARG	A	251	3.566	107.785	150.411	0.00	0.00	H
ATOM	3631	HNE	ARG	A	251	-0.782	104.817	154.203	0.00	0.00	H
ATOM	3632	HNH1	ARG	A	251	-2.333	107.955	153.918	0.00	0.00	H
ATOM	3633	HNH1	ARG	A	251	-3.602	107.484	154.900	0.00	0.00	H
ATOM	3634	HNH2	ARG	A	251	-2.441	104.350	155.451	0.00	0.00	H
ATOM	3635	HNH2	ARG	A	251	-3.680	105.416	155.772	0.00	0.00	H
ATOM	3636	HCA	ARG	A	251	1.801	105.736	149.986	0.00	0.00	H
ATOM	3637	HCB	ARG	A	251	3.006	106.140	152.056	0.00	0.00	H
ATOM	3638	HCB	ARG	A	251	2.105	107.609	152.379	0.00	0.00	H
ATOM	3639	HCD	ARG	A	251	0.064	107.417	153.757	0.00	0.00	H
ATOM	3640	HCD	ARG	A	251	-0.849	106.858	152.336	0.00	0.00	H
ATOM	3641	HCG	ARG	A	251	0.673	104.911	152.086	0.00	0.00	H
ATOM	3642	HCG	ARG	A	251	1.491	105.346	153.583	0.00	0.00	H
ATOM	3643	N	THR	A	252	0.207	108.672	150.424	0.00	0.00	N
ATOM	3644	CA	THR	A	252	-1.070	109.323	150.215	0.00	0.00	C
ATOM	3645	C	THR	A	252	-1.413	109.530	148.782	0.00	0.00	C
ATOM	3646	O	THR	A	252	-2.613	109.458	148.424	0.00	0.00	O
ATOM	3647	CB	THR	A	252	-1.220	110.627	151.058	0.00	0.00	C
ATOM	3648	CG2	THR	A	252	-0.498	111.874	150.499	0.00	0.00	C
ATOM	3649	OG1	THR	A	252	-2.601	110.963	151.184	0.00	0.00	O
ATOM	3650	HN	THR	A	252	0.890	109.171	150.881	0.00	0.00	H
ATOM	3651	HCA	THR	A	252	-1.818	108.630	150.617	0.00	0.00	H
ATOM	3652	HCB	THR	A	252	-0.839	110.431	152.066	0.00	0.00	H
ATOM	3653	HCG2	THR	A	252	-0.951	112.199	149.560	0.00	0.00	H
ATOM	3654	HCG2	THR	A	252	-0.557	112.696	151.214	0.00	0.00	H
ATOM	3655	HCG2	THR	A	252	0.548	111.649	150.321	0.00	0.00	H
ATOM	3656	HOG1	THR	A	252	-2.618	111.772	151.744	0.00	0.00	H
ATOM	3657	N	ARG	A	253	-0.445	109.731	147.857	0.00	0.00	N
ATOM	3658	CA	ARG	A	253	-0.609	109.698	146.426	0.00	0.00	C
ATOM	3659	C	ARG	A	253	-1.283	108.461	145.936	0.00	0.00	C
ATOM	3660	O	ARG	A	253	-1.914	108.529	144.855	0.00	0.00	O
ATOM	3661	CB	ARG	A	253	0.812	109.911	145.814	0.00	0.00	C
ATOM	3662	CG	ARG	A	253	0.968	109.909	144.264	0.00	0.00	C
ATOM	3663	CD	ARG	A	253	1.170	108.529	143.581	0.00	0.00	C
ATOM	3664	NE	ARG	A	253	2.304	107.813	144.083	0.00	0.00	N
ATOM	3665	CZ	ARG	A	253	2.779	106.673	143.572	0.00	0.00	C
ATOM	3666	NH1	ARG	A	253	2.250	106.066	142.519	0.00	0.00	N
ATOM	3667	NH2	ARG	A	253	3.829	106.089	144.125	0.00	0.00	N
ATOM	3668	HN	ARG	A	253	0.439	109.923	148.172	0.00	0.00	H
ATOM	3669	HNE	ARG	A	253	2.755	108.145	144.870	0.00	0.00	H
ATOM	3670	HNH1	ARG	A	253	1.476	106.446	142.090	0.00	0.00	H
ATOM	3671	HNH1	ARG	A	253	2.636	105.245	142.191	0.00	0.00	H
ATOM	3672	HNH2	ARG	A	253	4.256	106.456	144.896	0.00	0.00	H
ATOM	3673	HNH2	ARG	A	253	4.168	105.271	143.743	0.00	0.00	H
ATOM	3674	HCA	ARG	A	253	-1.232	110.555	146.150	0.00	0.00	H
ATOM	3675	HCB	ARG	A	253	1.163	110.888	146.163	0.00	0.00	H
ATOM	3676	HCB	ARG	A	253	1.488	109.170	146.233	0.00	0.00	H
ATOM	3677	HCD	ARG	A	253	0.278	107.914	143.703	0.00	0.00	H
ATOM	3678	HCD	ARG	A	253	1.302	108.709	142.509	0.00	0.00	H

ATOM	3679	HCG	ARG	A	253	0.101	110.403	143.817	0.00	0.00	H
ATOM	3680	HCG	ARG	A	253	1.843	110.517	144.010	0.00	0.00	H
ATOM	3681	N	GLY	A	254	-1.268	107.302	146.642	0.00	0.00	N
ATOM	3682	CA	GLY	A	254	-1.913	106.077	146.283	0.00	0.00	C
ATOM	3683	C	GLY	A	254	-0.953	104.964	146.157	0.00	0.00	C
ATOM	3684	O	GLY	A	254	-0.945	104.308	145.088	0.00	0.00	O
ATOM	3685	HN	GLY	A	254	-0.828	107.277	147.494	0.00	0.00	H
ATOM	3686	HCA	GLY	A	254	-2.613	105.823	147.082	0.00	0.00	H
ATOM	3687	HCA	GLY	A	254	-2.496	106.170	145.362	0.00	0.00	H
ATOM	3688	N	SER	A	255	-0.122	104.645	147.181	0.00	0.00	N
ATOM	3689	CA	SER	A	255	0.725	103.465	147.210	0.00	0.00	C
ATOM	3690	C	SER	A	255	0.604	102.663	148.459	0.00	0.00	C
ATOM	3691	O	SER	A	255	-0.087	103.072	149.422	0.00	0.00	O
ATOM	3692	CB	SER	A	255	2.202	103.816	146.888	0.00	0.00	C
ATOM	3693	OG	SER	A	255	2.873	104.426	147.984	0.00	0.00	O
ATOM	3694	HN	SER	A	255	-0.123	105.253	147.929	0.00	0.00	H
ATOM	3695	HCA	SER	A	255	0.404	102.778	146.421	0.00	0.00	H
ATOM	3696	HCB	SER	A	255	2.752	102.905	146.638	0.00	0.00	H
ATOM	3697	HCB	SER	A	255	2.252	104.476	146.019	0.00	0.00	H
ATOM	3698	HOG	SER	A	255	2.645	105.361	147.923	0.00	0.00	H
ATOM	3699	N	ARG	A	256	1.232	101.463	148.518	0.00	0.00	N
ATOM	3700	CA	ARG	A	256	1.178	100.501	149.582	0.00	0.00	C
ATOM	3701	C	ARG	A	256	2.504	100.473	150.276	0.00	0.00	C
ATOM	3702	O	ARG	A	256	2.817	101.406	151.050	0.00	0.00	O
ATOM	3703	CB	ARG	A	256	0.771	99.116	148.982	0.00	0.00	C
ATOM	3704	CG	ARG	A	256	-0.580	99.034	148.220	0.00	0.00	C
ATOM	3705	CD	ARG	A	256	-0.955	97.579	147.814	0.00	0.00	C
ATOM	3706	NE	ARG	A	256	0.143	96.856	147.243	0.00	0.00	N
ATOM	3707	CZ	ARG	A	256	0.565	96.893	145.978	0.00	0.00	C
ATOM	3708	NH1	ARG	A	256	-0.004	97.608	145.020	0.00	0.00	N
ATOM	3709	NH2	ARG	A	256	1.631	96.169	145.677	0.00	0.00	N
ATOM	3710	HN	ARG	A	256	1.775	101.228	147.751	0.00	0.00	H
ATOM	3711	HNE	ARG	A	256	0.674	96.306	147.834	0.00	0.00	H
ATOM	3712	HNH1	ARG	A	256	-0.779	98.146	145.219	0.00	0.00	H
ATOM	3713	HNH1	ARG	A	256	0.356	97.591	144.125	0.00	0.00	H
ATOM	3714	HNH2	ARG	A	256	2.066	95.648	146.365	0.00	0.00	H
ATOM	3715	HNH2	ARG	A	256	1.971	96.166	144.773	0.00	0.00	H
ATOM	3716	HCA	ARG	A	256	0.424	100.768	150.329	0.00	0.00	H
ATOM	3717	HCB	ARG	A	256	1.540	98.811	148.269	0.00	0.00	H
ATOM	3718	HCB	ARG	A	256	0.751	98.383	149.796	0.00	0.00	H
ATOM	3719	HCD	ARG	A	256	-1.273	97.039	148.710	0.00	0.00	H
ATOM	3720	HCD	ARG	A	256	-1.811	97.593	147.133	0.00	0.00	H
ATOM	3721	HCG	ARG	A	256	-1.377	99.441	148.848	0.00	0.00	H
ATOM	3722	HCG	ARG	A	256	-0.520	99.647	147.317	0.00	0.00	H
ATOM	3723	N	LEU	A	257	3.357	99.441	150.079	0.00	0.00	N
ATOM	3724	CA	LEU	A	257	4.651	99.199	150.641	0.00	0.00	C
ATOM	3725	C	LEU	A	257	5.706	100.218	150.380	0.00	0.00	C
ATOM	3726	O	LEU	A	257	5.540	101.069	149.475	0.00	0.00	O
ATOM	3727	CB	LEU	A	257	5.101	97.802	150.106	0.00	0.00	C
ATOM	3728	CG	LEU	A	257	5.580	97.751	148.613	0.00	0.00	C
ATOM	3729	CD1	LEU	A	257	6.112	96.343	148.265	0.00	0.00	C
ATOM	3730	CD2	LEU	A	257	4.511	98.150	147.560	0.00	0.00	C
ATOM	3731	HN	LEU	A	257	3.049	98.757	149.475	0.00	0.00	H
ATOM	3732	HCA	LEU	A	257	4.513	99.133	151.723	0.00	0.00	H
ATOM	3733	HCB	LEU	A	257	5.928	97.463	150.734	0.00	0.00	H
ATOM	3734	HCB	LEU	A	257	4.292	97.078	150.249	0.00	0.00	H
ATOM	3735	HCD1	LEU	A	257	6.801	95.979	149.029	0.00	0.00	H
ATOM	3736	HCD1	LEU	A	257	5.287	95.638	148.154	0.00	0.00	H
ATOM	3737	HCD1	LEU	A	257	6.651	96.389	147.322	0.00	0.00	H
ATOM	3738	HCD2	LEU	A	257	4.254	99.206	147.648	0.00	0.00	H
ATOM	3739	HCD2	LEU	A	257	4.893	97.998	146.548	0.00	0.00	H
ATOM	3740	HCD2	LEU	A	257	3.611	97.545	147.680	0.00	0.00	H
ATOM	3741	HCG	LEU	A	257	6.423	98.440	148.499	0.00	0.00	H
ATOM	3742	N	ASN	A	258	6.857	100.170	151.098	0.00	0.00	N
ATOM	3743	CA	ASN	A	258	8.003	101.040	150.906	0.00	0.00	C
ATOM	3744	C	ASN	A	258	9.301	100.300	150.976	0.00	0.00	C
ATOM	3745	O	ASN	A	258	9.459	99.461	151.893	0.00	0.00	O
ATOM	3746	CB	ASN	A	258	7.971	102.170	151.972	0.00	0.00	C
ATOM	3747	CG	ASN	A	258	6.697	102.910	152.053	0.00	0.00	C
ATOM	3748	ND2	ASN	A	258	5.934	102.869	153.151	0.00	0.00	N
ATOM	3749	OD1	ASN	A	258	6.299	103.630	151.115	0.00	0.00	O
ATOM	3750	HN	ASN	A	258	6.865	99.513	151.804	0.00	0.00	H
ATOM	3751	HND2	ASN	A	258	6.216	102.366	153.913	0.00	0.00	H
ATOM	3752	HND2	ASN	A	258	5.101	103.360	153.164	0.00	0.00	H
ATOM	3753	HCA	ASN	A	258	7.957	101.519	149.921	0.00	0.00	H
ATOM	3754	HCB	ASN	A	258	8.176	101.735	152.944	0.00	0.00	H
ATOM	3755	HCB	ASN	A	258	8.765	102.888	151.754	0.00	0.00	H
ATOM	3756	N	ILE	A	259	10.320	100.519	150.104	0.00	0.00	N
ATOM	3757	CA	ILE	A	259	11.593	99.825	150.058	0.00	0.00	C
ATOM	3758	C	ILE	A	259	12.702	100.798	150.333	0.00	0.00	C



ATOM	3759	O	ILE	A	259	12.933	101.724	149.519	0.00	0.00	O
ATOM	3760	CB	ILE	A	259	11.742	99.055	148.687	0.00	0.00	C
ATOM	3761	CG1	ILE	A	259	10.896	97.739	148.590	0.00	0.00	C
ATOM	3762	CG2	ILE	A	259	13.218	98.671	148.367	0.00	0.00	C
ATOM	3763	CD1	ILE	A	259	9.369	97.922	148.467	0.00	0.00	C
ATOM	3764	HN	ILE	A	259	10.189	101.217	149.458	0.00	0.00	H
ATOM	3765	HCA	ILE	A	259	11.642	99.068	150.845	0.00	0.00	H
ATOM	3766	HCB	ILE	A	259	11.418	99.726	147.884	0.00	0.00	H
ATOM	3767	HCD1	ILE	A	259	8.922	98.136	149.435	0.00	0.00	H
ATOM	3768	HCD1	ILE	A	259	9.125	98.725	147.768	0.00	0.00	H
ATOM	3769	HCD1	ILE	A	259	8.930	96.997	148.094	0.00	0.00	H
ATOM	3770	HCG1	ILE	A	259	11.196	97.183	147.696	0.00	0.00	H
ATOM	3771	HCG1	ILE	A	259	11.108	97.096	149.450	0.00	0.00	H
ATOM	3772	HCG2	ILE	A	259	13.824	99.567	148.259	0.00	0.00	H
ATOM	3773	HCG2	ILE	A	259	13.633	98.053	149.166	0.00	0.00	H
ATOM	3774	HCG2	ILE	A	259	13.296	98.127	147.424	0.00	0.00	H
ATOM	3775	N	ILE	A	260	13.495	100.661	151.427	0.00	0.00	N
ATOM	3776	CA	ILE	A	260	14.640	101.459	151.802	0.00	0.00	C
ATOM	3777	C	ILE	A	260	15.881	100.632	151.711	0.00	0.00	C
ATOM	3778	O	ILE	A	260	15.912	99.525	152.303	0.00	0.00	O
ATOM	3779	CB	ILE	A	260	14.480	102.029	153.260	0.00	0.00	C
ATOM	3780	CG1	ILE	A	260	13.063	102.588	153.605	0.00	0.00	C
ATOM	3781	CG2	ILE	A	260	15.604	103.051	153.606	0.00	0.00	C
ATOM	3782	CD1	ILE	A	260	12.602	103.771	152.734	0.00	0.00	C
ATOM	3783	HN	ILE	A	260	13.269	99.971	152.047	0.00	0.00	H
ATOM	3784	HCA	ILE	A	260	14.739	102.307	151.121	0.00	0.00	H
ATOM	3785	HCB	ILE	A	260	14.612	101.200	153.955	0.00	0.00	H
ATOM	3786	HCD1	ILE	A	260	13.280	104.613	152.842	0.00	0.00	H
ATOM	3787	HCD1	ILE	A	260	12.561	103.479	151.688	0.00	0.00	H
ATOM	3788	HCD1	ILE	A	260	11.611	104.084	153.048	0.00	0.00	H
ATOM	3789	HCG1	ILE	A	260	12.326	101.785	153.513	0.00	0.00	H
ATOM	3790	HCG1	ILE	A	260	13.045	102.905	154.652	0.00	0.00	H
ATOM	3791	HCG2	ILE	A	260	16.575	102.554	153.656	0.00	0.00	H
ATOM	3792	HCG2	ILE	A	260	15.663	103.835	152.853	0.00	0.00	H
ATOM	3793	HCG2	ILE	A	260	15.416	103.517	154.573	0.00	0.00	H
ATOM	3794	N	ILE	A	261	16.983	101.086	151.061	0.00	0.00	N
ATOM	3795	CA	ILE	A	261	18.245	100.385	150.926	0.00	0.00	C
ATOM	3796	C	ILE	A	261	19.290	101.018	151.787	0.00	0.00	C
ATOM	3797	O	ILE	A	261	19.594	102.229	151.633	0.00	0.00	O
ATOM	3798	CB	ILE	A	261	18.651	100.253	149.406	0.00	0.00	C
ATOM	3799	CG1	ILE	A	261	18.126	98.935	148.741	0.00	0.00	C
ATOM	3800	CG2	ILE	A	261	20.183	100.318	149.139	0.00	0.00	C
ATOM	3801	CD1	ILE	A	261	16.592	98.824	148.669	0.00	0.00	C
ATOM	3802	HN	ILE	A	261	16.907	101.960	150.670	0.00	0.00	H
ATOM	3803	HCA	ILE	A	261	18.133	99.364	151.299	0.00	0.00	H
ATOM	3804	HCB	ILE	A	261	18.218	101.100	148.862	0.00	0.00	H
ATOM	3805	HCD1	ILE	A	261	16.169	98.660	149.659	0.00	0.00	H
ATOM	3806	HCD1	ILE	A	261	16.181	99.739	148.249	0.00	0.00	H
ATOM	3807	HCD1	ILE	A	261	16.309	97.986	148.028	0.00	0.00	H
ATOM	3808	HCG1	ILE	A	261	18.489	98.873	147.712	0.00	0.00	H
ATOM	3809	HCG1	ILE	A	261	18.520	98.063	149.273	0.00	0.00	H
ATOM	3810	HCG2	ILE	A	261	20.593	101.281	149.444	0.00	0.00	H
ATOM	3811	HCG2	ILE	A	261	20.704	99.523	149.677	0.00	0.00	H
ATOM	3812	HCG2	ILE	A	261	20.386	100.214	148.075	0.00	0.00	H
ATOM	3813	N	VAL	A	262	19.974	100.249	152.672	0.00	0.00	N
ATOM	3814	CA	VAL	A	262	21.130	100.645	153.432	0.00	0.00	C
ATOM	3815	C	VAL	A	262	22.309	99.873	152.943	0.00	0.00	C
ATOM	3816	O	VAL	A	262	22.322	98.624	153.080	0.00	0.00	O
ATOM	3817	CB	VAL	A	262	20.883	100.455	154.972	0.00	0.00	C
ATOM	3818	CG1	VAL	A	262	22.108	100.888	155.832	0.00	0.00	C
ATOM	3819	CG2	VAL	A	262	19.620	101.205	155.483	0.00	0.00	C
ATOM	3820	HN	VAL	A	262	19.664	99.347	152.788	0.00	0.00	H
ATOM	3821	HCA	VAL	A	262	21.344	101.700	153.271	0.00	0.00	H
ATOM	3822	HCB	VAL	A	262	20.709	99.393	155.161	0.00	0.00	H
ATOM	3823	HCG1	VAL	A	262	22.342	101.942	155.669	0.00	0.00	H
ATOM	3824	HCG1	VAL	A	262	21.904	100.739	156.895	0.00	0.00	H
ATOM	3825	HCG1	VAL	A	262	22.988	100.294	155.580	0.00	0.00	H
ATOM	3826	HCG2	VAL	A	262	19.760	102.282	155.419	0.00	0.00	H
ATOM	3827	HCG2	VAL	A	262	18.740	100.929	154.901	0.00	0.00	H
ATOM	3828	HCG2	VAL	A	262	19.423	100.949	156.525	0.00	0.00	H
ATOM	3829	N	ALA	A	263	23.383	100.491	152.386	0.00	0.00	N
ATOM	3830	CA	ALA	A	263	24.658	99.852	152.191	0.00	0.00	C
ATOM	3831	C	ALA	A	263	25.399	99.771	153.480	0.00	0.00	C
ATOM	3832	O	ALA	A	263	25.616	100.834	154.105	0.00	0.00	O
ATOM	3833	CB	ALA	A	263	25.470	100.667	151.160	0.00	0.00	C
ATOM	3834	HN	ALA	A	263	23.330	101.426	152.158	0.00	0.00	H
ATOM	3835	HCA	ALA	A	263	24.521	98.847	151.776	0.00	0.00	H
ATOM	3836	HCB	ALA	A	263	25.648	101.666	151.544	0.00	0.00	H
ATOM	3837	HCB	ALA	A	263	26.429	100.186	150.954	0.00	0.00	H
ATOM	3838	HCB	ALA	A	263	24.922	100.764	150.227	0.00	0.00	H

ATOM	3839	N	GLU	A	264	25.820	98.590	153.987	0.00	0.00	N
ATOM	3840	CA	GLU	A	264	26.612	98.353	155.170	0.00	0.00	C
ATOM	3841	C	GLU	A	264	27.449	99.490	155.672	0.00	0.00	C
ATOM	3842	O	GLU	A	264	27.200	99.959	156.809	0.00	0.00	O
ATOM	3843	CB	GLU	A	264	27.459	97.075	154.901	0.00	0.00	C
ATOM	3844	CG	GLU	A	264	28.207	96.514	156.143	0.00	0.00	C
ATOM	3845	CD	GLU	A	264	28.973	95.297	155.825	0.00	0.00	C
ATOM	3846	OE1	GLU	A	264	28.394	94.262	155.430	0.00	0.00	O
ATOM	3847	OE2	GLU	A	264	30.218	95.277	155.934	0.00	0.00	O
ATOM	3848	HN	GLU	A	264	25.509	97.804	153.538	0.00	0.00	H
ATOM	3849	HCA	GLU	A	264	25.890	98.095	155.952	0.00	0.00	H
ATOM	3850	HCB	GLU	A	264	26.791	96.287	154.542	0.00	0.00	H
ATOM	3851	HCB	GLU	A	264	28.183	97.278	154.107	0.00	0.00	H
ATOM	3852	HCG	GLU	A	264	28.889	97.271	156.536	0.00	0.00	H
ATOM	3853	HCG	GLU	A	264	27.488	96.266	156.928	0.00	0.00	H
ATOM	3854	N	GLY	A	265	28.462	100.027	154.945	0.00	0.00	N
ATOM	3855	CA	GLY	A	265	29.308	101.103	155.383	0.00	0.00	C
ATOM	3856	C	GLY	A	265	28.762	102.482	155.376	0.00	0.00	C
ATOM	3857	O	GLY	A	265	29.561	103.403	155.667	0.00	0.00	O
ATOM	3858	HN	GLY	A	265	28.675	99.652	154.086	0.00	0.00	H
ATOM	3859	HCA	GLY	A	265	29.683	100.886	156.387	0.00	0.00	H
ATOM	3860	HCA	GLY	A	265	30.169	101.106	154.715	0.00	0.00	H
ATOM	3861	N	ALA	A	266	27.490	102.793	155.032	0.00	0.00	N
ATOM	3862	CA	ALA	A	266	26.942	104.120	154.929	0.00	0.00	C
ATOM	3863	C	ALA	A	266	27.083	104.971	156.146	0.00	0.00	C
ATOM	3864	O	ALA	A	266	26.754	104.517	157.266	0.00	0.00	O
ATOM	3865	CB	ALA	A	266	25.454	104.006	154.525	0.00	0.00	C
ATOM	3866	HN	ALA	A	266	26.905	102.080	154.780	0.00	0.00	H
ATOM	3867	HCA	ALA	A	266	27.454	104.613	154.100	0.00	0.00	H
ATOM	3868	HCB	ALA	A	266	24.892	103.440	155.272	0.00	0.00	H
ATOM	3869	HCB	ALA	A	266	25.018	105.001	154.431	0.00	0.00	H
ATOM	3870	HCB	ALA	A	266	25.358	103.500	153.563	0.00	0.00	H
ATOM	3871	N	ILE	A	267	27.538	106.240	156.019	0.00	0.00	N
ATOM	3872	CA	ILE	A	267	27.777	107.203	157.067	0.00	0.00	C
ATOM	3873	C	ILE	A	267	26.979	108.451	156.895	0.00	0.00	C
ATOM	3874	O	ILE	A	267	26.470	108.740	155.787	0.00	0.00	O
ATOM	3875	CB	ILE	A	267	29.315	107.530	157.156	0.00	0.00	C
ATOM	3876	CG1	ILE	A	267	29.939	107.855	155.755	0.00	0.00	C
ATOM	3877	CG2	ILE	A	267	30.084	106.388	157.882	0.00	0.00	C
ATOM	3878	CD1	ILE	A	267	31.335	108.518	155.789	0.00	0.00	C
ATOM	3879	HN	ILE	A	267	27.737	106.535	155.118	0.00	0.00	H
ATOM	3880	HCA	ILE	A	267	27.451	106.787	158.020	0.00	0.00	H
ATOM	3881	HCB	ILE	A	267	29.437	108.420	157.785	0.00	0.00	H
ATOM	3882	HCD1	ILE	A	267	31.295	109.466	156.330	0.00	0.00	H
ATOM	3883	HCD1	ILE	A	267	32.072	107.867	156.258	0.00	0.00	H
ATOM	3884	HCD1	ILE	A	267	31.664	108.712	154.767	0.00	0.00	H
ATOM	3885	HCG1	ILE	A	267	30.011	106.937	155.164	0.00	0.00	H
ATOM	3886	HCG1	ILE	A	267	29.276	108.538	155.217	0.00	0.00	H
ATOM	3887	HCG2	ILE	A	267	29.665	106.216	158.874	0.00	0.00	H
ATOM	3888	HCG2	ILE	A	267	30.025	105.460	157.313	0.00	0.00	H
ATOM	3889	HCG2	ILE	A	267	31.134	106.647	158.018	0.00	0.00	H
ATOM	3890	N	ASP	A	268	26.818	109.276	157.958	0.00	0.00	N
ATOM	3891	CA	ASP	A	268	26.333	110.632	157.918	0.00	0.00	C
ATOM	3892	C	ASP	A	268	27.296	111.573	157.262	0.00	0.00	C
ATOM	3893	O	ASP	A	268	28.365	111.167	156.746	0.00	0.00	O
ATOM	3894	CB	ASP	A	268	25.907	111.075	159.364	0.00	0.00	C
ATOM	3895	CG	ASP	A	268	26.924	111.838	160.114	0.00	0.00	C
ATOM	3896	OD1	ASP	A	268	28.088	111.414	160.238	0.00	0.00	O
ATOM	3897	OD2	ASP	A	268	26.714	112.993	160.541	0.00	0.00	O
ATOM	3898	HN	ASP	A	268	27.060	108.904	158.805	0.00	0.00	H
ATOM	3899	HCA	ASP	A	268	25.426	110.639	157.307	0.00	0.00	H
ATOM	3900	HCB	ASP	A	268	25.013	111.699	159.289	0.00	0.00	H
ATOM	3901	HCB	ASP	A	268	25.630	110.206	159.965	0.00	0.00	H
ATOM	3902	N	ARG	A	269	27.034	112.899	157.291	0.00	0.00	N
ATOM	3903	CA	ARG	A	269	27.888	113.955	156.820	0.00	0.00	C
ATOM	3904	C	ARG	A	269	29.246	113.981	157.438	0.00	0.00	C
ATOM	3905	O	ARG	A	269	30.136	114.647	156.859	0.00	0.00	O
ATOM	3906	CB	ARG	A	269	27.112	115.286	157.076	0.00	0.00	C
ATOM	3907	CG	ARG	A	269	27.828	116.592	156.622	0.00	0.00	C
ATOM	3908	CD	ARG	A	269	26.891	117.827	156.575	0.00	0.00	C
ATOM	3909	NE	ARG	A	269	27.632	119.044	156.592	0.00	0.00	N
ATOM	3910	CZ	ARG	A	269	28.251	119.626	155.562	0.00	0.00	C
ATOM	3911	NH1	ARG	A	269	28.275	119.187	154.312	0.00	0.00	N
ATOM	3912	NH2	ARG	A	269	28.908	120.747	155.810	0.00	0.00	N
ATOM	3913	HN	ARG	A	269	26.197	113.158	157.706	0.00	0.00	H
ATOM	3914	HNE	ARG	A	269	27.721	119.492	157.444	0.00	0.00	H
ATOM	3915	HNH1	ARG	A	269	27.824	118.386	154.042	0.00	0.00	H
ATOM	3916	HNH1	ARG	A	269	28.763	119.691	153.650	0.00	0.00	H
ATOM	3917	HNH2	ARG	A	269	28.923	121.109	156.704	0.00	0.00	H
ATOM	3918	HNH2	ARG	A	269	29.373	121.201	155.098	0.00	0.00	H

ATOM	3919	HCA	ARG	A	269	28.013	113.826	155.741	0.00	0.00		H
ATOM	3920	HC	ARG	A	269	26.158	115.216	156.556	0.00	0.00		H
ATOM	3921	HC	ARG	A	269	26.891	115.371	158.144	0.00	0.00		H
ATOM	3922	HCD	ARG	A	269	26.236	117.782	155.701	0.00	0.00		H
ATOM	3923	HCD	ARG	A	269	26.252	117.830	157.462	0.00	0.00		H
ATOM	3924	HCG	ARG	A	269	28.644	116.799	157.321	0.00	0.00		H
ATOM	3925	HCG	ARG	A	269	28.267	116.447	155.631	0.00	0.00		H
ATOM	3926	N	ASN	A	270	29.541	113.359	158.607	0.00	0.00		N
ATOM	3927	CA	ASN	A	270	30.756	113.521	159.355	0.00	0.00		C
ATOM	3928	C	ASN	A	270	31.516	112.246	159.437	0.00	0.00		C
ATOM	3929	O	ASN	A	270	32.731	112.225	159.128	0.00	0.00		O
ATOM	3930	CB	ASN	A	270	30.359	114.053	160.760	0.00	0.00		C
ATOM	3931	CG	ASN	A	270	29.642	115.337	160.677	0.00	0.00		C
ATOM	3932	ND2	ASN	A	270	28.306	115.394	160.707	0.00	0.00		N
ATOM	3933	OD1	ASN	A	270	30.274	116.404	160.520	0.00	0.00		O
ATOM	3934	HN	ASN	A	270	28.889	112.796	159.031	0.00	0.00		H
ATOM	3935	HND2	ASN	A	270	27.789	114.586	160.711	0.00	0.00		H
ATOM	3936	HND2	ASN	A	270	27.865	116.255	160.683	0.00	0.00		H
ATOM	3937	HCA	ASN	A	270	31.410	114.267	158.894	0.00	0.00		H
ATOM	3938	HC	ASN	A	270	29.724	113.324	161.270	0.00	0.00		H
ATOM	3939	HC	ASN	A	270	31.252	114.194	161.374	0.00	0.00		H
ATOM	3940	N	GLY	A	271	30.899	111.125	159.869	0.00	0.00		N
ATOM	3941	CA	GLY	A	271	31.523	109.850	160.077	0.00	0.00		C
ATOM	3942	C	GLY	A	271	30.757	108.919	160.934	0.00	0.00		C
ATOM	3943	O	GLY	A	271	31.311	107.845	161.264	0.00	0.00		O
ATOM	3944	HN	GLY	A	271	29.958	111.202	160.012	0.00	0.00		H
ATOM	3945	HCA	GLY	A	271	31.686	109.373	159.109	0.00	0.00		H
ATOM	3946	HCA	GLY	A	271	32.496	110.001	160.553	0.00	0.00		H
ATOM	3947	N	LYS	A	272	29.497	109.187	161.352	0.00	0.00		N
ATOM	3948	CA	LYS	A	272	28.702	108.374	162.229	0.00	0.00		C
ATOM	3949	C	LYS	A	272	27.911	107.401	161.412	0.00	0.00		C
ATOM	3950	O	LYS	A	272	27.306	107.876	160.420	0.00	0.00		O
ATOM	3951	CB	LYS	A	272	27.767	109.264	163.105	0.00	0.00		C
ATOM	3952	CG	LYS	A	272	28.464	110.050	164.254	0.00	0.00		C
ATOM	3953	CD	LYS	A	272	29.260	111.307	163.806	0.00	0.00		C
ATOM	3954	CE	LYS	A	272	29.859	112.079	165.007	0.00	0.00		C
ATOM	3955	NZ	LYS	A	272	30.584	113.270	164.556	0.00	0.00		N
ATOM	3956	HN	LYS	A	272	29.064	109.961	160.995	0.00	0.00		H
ATOM	3957	HNZ	LYS	A	272	31.337	112.997	163.925	0.00	0.00		H
ATOM	3958	HNZ	LYS	A	272	29.945	113.899	164.072	0.00	0.00		H
ATOM	3959	HNZ	LYS	A	272	30.983	113.752	165.362	0.00	0.00		H
ATOM	3960	HCA	LYS	A	272	29.363	107.837	162.911	0.00	0.00		H
ATOM	3961	HC	LYS	A	272	27.209	109.959	162.472	0.00	0.00		H
ATOM	3962	HC	LYS	A	272	27.029	108.609	163.579	0.00	0.00		H
ATOM	3963	HCD	LYS	A	272	30.077	111.011	163.147	0.00	0.00		H
ATOM	3964	HCD	LYS	A	272	28.593	111.973	163.251	0.00	0.00		H
ATOM	3965	HCE	LYS	A	272	29.064	112.394	165.687	0.00	0.00		H
ATOM	3966	HCE	LYS	A	272	30.552	111.436	165.555	0.00	0.00		H
ATOM	3967	HCG	LYS	A	272	27.686	110.377	164.951	0.00	0.00		H
ATOM	3968	HCG	LYS	A	272	29.127	109.376	164.805	0.00	0.00		H
ATOM	3969	N	PRO	A	273	27.807	106.058	161.667	0.00	0.00		N
ATOM	3970	CA	PRO	A	273	27.152	105.125	160.778	0.00	0.00		C
ATOM	3971	C	PRO	A	273	25.699	105.276	160.686	0.00	0.00		C
ATOM	3972	O	PRO	A	273	25.048	105.491	161.701	0.00	0.00		O
ATOM	3973	CB	PRO	A	273	27.554	103.732	161.326	0.00	0.00		C
ATOM	3974	CG	PRO	A	273	27.804	103.985	162.816	0.00	0.00		C
ATOM	3975	CD	PRO	A	273	28.353	105.420	162.831	0.00	0.00		C
ATOM	3976	HCA	PRO	A	273	27.587	105.218	159.781	0.00	0.00		H
ATOM	3977	HC	PRO	A	273	26.790	102.964	161.169	0.00	0.00		H
ATOM	3978	HC	PRO	A	273	28.483	103.396	160.852	0.00	0.00		H
ATOM	3979	HCD	PRO	A	273	28.049	105.924	163.753	0.00	0.00		H
ATOM	3980	HCD	PRO	A	273	29.446	105.402	162.767	0.00	0.00		H
ATOM	3981	HCG	PRO	A	273	26.862	103.933	163.371	0.00	0.00		H
ATOM	3982	HCG	PRO	A	273	28.514	103.270	163.241	0.00	0.00		H
ATOM	3983	N	ILE	A	274	25.088	105.086	159.528	0.00	0.00		N
ATOM	3984	CA	ILE	A	274	23.665	104.966	159.331	0.00	0.00		C
ATOM	3985	C	ILE	A	274	23.274	103.593	159.754	0.00	0.00		C
ATOM	3986	O	ILE	A	274	23.815	102.591	159.228	0.00	0.00		O
ATOM	3987	CB	ILE	A	274	23.232	105.262	157.854	0.00	0.00		C
ATOM	3988	CG1	ILE	A	274	23.715	106.649	157.316	0.00	0.00		C
ATOM	3989	CG2	ILE	A	274	21.697	105.083	157.654	0.00	0.00		C
ATOM	3990	CD1	ILE	A	274	23.167	107.904	158.038	0.00	0.00		C
ATOM	3991	HN	ILE	A	274	25.644	104.913	158.771	0.00	0.00		H
ATOM	3992	HCA	ILE	A	274	23.154	105.696	159.967	0.00	0.00		H
ATOM	3993	HC	ILE	A	274	23.716	104.510	157.221	0.00	0.00		H
ATOM	3994	HCD1	ILE	A	274	22.078	107.933	157.989	0.00	0.00		H
ATOM	3995	HCD1	ILE	A	274	23.481	107.922	159.083	0.00	0.00		H
ATOM	3996	HCD1	ILE	A	274	23.551	108.803	157.553	0.00	0.00		H
ATOM	3997	HCG1	ILE	A	274	24.803	106.682	157.368	0.00	0.00		H
ATOM	3998	HCG1	ILE	A	274	23.453	106.728	156.257	0.00	0.00		H

ATOM	3999	HCG2	ILE	A	274	21.400	104.046	157.817	0.00	0.00		H
ATOM	4000	HCG2	ILE	A	274	21.133	105.715	158.343	0.00	0.00		H
ATOM	4001	HCG2	ILE	A	274	21.412	105.343	156.637	0.00	0.00		H
ATOM	4002	N	THR	A	275	22.331	103.445	160.707	0.00	0.00		N
ATOM	4003	CA	THR	A	275	21.899	102.223	161.327	0.00	0.00		C
ATOM	4004	C	THR	A	275	20.536	101.880	160.841	0.00	0.00		C
ATOM	4005	O	THR	A	275	19.612	102.727	160.893	0.00	0.00		O
ATOM	4006	CB	THR	A	275	22.009	102.306	162.891	0.00	0.00		C
ATOM	4007	CG2	THR	A	275	22.031	103.725	163.511	0.00	0.00		C
ATOM	4008	OG1	THR	A	275	20.946	101.603	163.524	0.00	0.00		O
ATOM	4009	HN	THR	A	275	21.906	104.259	161.017	0.00	0.00		H
ATOM	4010	HCA	THR	A	275	22.558	101.402	161.023	0.00	0.00		H
ATOM	4011	HCB	THR	A	275	22.942	101.815	163.191	0.00	0.00		H
ATOM	4012	HCG2	THR	A	275	22.936	104.255	163.210	0.00	0.00		H
ATOM	4013	HCG2	THR	A	275	21.163	104.297	163.186	0.00	0.00		H
ATOM	4014	HCG2	THR	A	275	22.024	103.664	164.601	0.00	0.00		H
ATOM	4015	HOG1	THR	A	275	21.210	101.547	164.468	0.00	0.00		H
ATOM	4016	N	SER	A	276	20.288	100.641	160.357	0.00	0.00		N
ATOM	4017	CA	SER	A	276	19.027	100.158	159.868	0.00	0.00		C
ATOM	4018	C	SER	A	276	17.981	100.133	160.926	0.00	0.00		C
ATOM	4019	O	SER	A	276	16.841	100.609	160.690	0.00	0.00		O
ATOM	4020	CB	SER	A	276	19.241	98.761	159.232	0.00	0.00		C
ATOM	4021	OG	SER	A	276	19.688	97.809	160.195	0.00	0.00		O
ATOM	4022	HN	SER	A	276	21.023	100.006	160.381	0.00	0.00		H
ATOM	4023	HCA	SER	A	276	18.701	100.828	159.068	0.00	0.00		H
ATOM	4024	HCB	SER	A	276	18.311	98.399	158.794	0.00	0.00		H
ATOM	4025	HCB	SER	A	276	19.983	98.838	158.432	0.00	0.00		H
ATOM	4026	HOG	SER	A	276	20.448	97.352	159.792	0.00	0.00		H
ATOM	4027	N	GLU	A	277	18.277	99.681	162.169	0.00	0.00		N
ATOM	4028	CA	GLU	A	277	17.418	99.770	163.310	0.00	0.00		C
ATOM	4029	C	GLU	A	277	17.163	101.195	163.675	0.00	0.00		C
ATOM	4030	O	GLU	A	277	15.985	101.528	163.931	0.00	0.00		O
ATOM	4031	CB	GLU	A	277	17.886	98.863	164.492	0.00	0.00		C
ATOM	4032	CG	GLU	A	277	19.396	98.898	164.867	0.00	0.00		C
ATOM	4033	CD	GLU	A	277	20.263	98.154	163.931	0.00	0.00		C
ATOM	4034	OE1	GLU	A	277	20.381	96.914	164.022	0.00	0.00		O
ATOM	4035	OE2	GLU	A	277	20.867	98.733	163.002	0.00	0.00		O
ATOM	4036	HN	GLU	A	277	19.158	99.342	162.334	0.00	0.00		H
ATOM	4037	HCA	GLU	A	277	16.459	99.346	163.005	0.00	0.00		H
ATOM	4038	HCB	GLU	A	277	17.306	99.135	165.379	0.00	0.00		H
ATOM	4039	HCB	GLU	A	277	17.621	97.826	164.259	0.00	0.00		H
ATOM	4040	HCG	GLU	A	277	19.725	99.931	164.945	0.00	0.00		H
ATOM	4041	HCG	GLU	A	277	19.525	98.451	165.855	0.00	0.00		H
ATOM	4042	N	GLY	A	278	18.117	102.160	163.629	0.00	0.00		N
ATOM	4043	CA	GLY	A	278	17.870	103.574	163.737	0.00	0.00		C
ATOM	4044	C	GLY	A	278	16.885	104.114	162.767	0.00	0.00		C
ATOM	4045	O	GLY	A	278	15.919	104.787	163.193	0.00	0.00		O
ATOM	4046	HN	GLY	A	278	19.031	101.894	163.521	0.00	0.00		H
ATOM	4047	HCA	GLY	A	278	17.552	103.798	164.759	0.00	0.00		H
ATOM	4048	HCA	GLY	A	278	18.810	104.096	163.568	0.00	0.00		H
ATOM	4049	N	VAL	A	279	17.017	103.875	161.441	0.00	0.00		N
ATOM	4050	CA	VAL	A	279	16.059	104.220	160.409	0.00	0.00		C
ATOM	4051	C	VAL	A	279	14.695	103.683	160.723	0.00	0.00		C
ATOM	4052	O	VAL	A	279	13.698	104.453	160.699	0.00	0.00		O
ATOM	4053	CB	VAL	A	279	16.597	103.766	159.005	0.00	0.00		C
ATOM	4054	CG1	VAL	A	279	15.545	103.879	157.864	0.00	0.00		C
ATOM	4055	CG2	VAL	A	279	17.865	104.566	158.581	0.00	0.00		C
ATOM	4056	HN	VAL	A	279	17.835	103.444	161.191	0.00	0.00		H
ATOM	4057	HCA	VAL	A	279	15.984	105.312	160.384	0.00	0.00		H
ATOM	4058	HCB	VAL	A	279	16.880	102.712	159.075	0.00	0.00		H
ATOM	4059	HCG1	VAL	A	279	15.189	104.906	157.766	0.00	0.00		H
ATOM	4060	HCG1	VAL	A	279	15.984	103.568	156.915	0.00	0.00		H
ATOM	4061	HCG1	VAL	A	279	14.688	103.230	158.054	0.00	0.00		H
ATOM	4062	HCG2	VAL	A	279	17.615	105.611	158.384	0.00	0.00		H
ATOM	4063	HCG2	VAL	A	279	18.626	104.543	159.360	0.00	0.00		H
ATOM	4064	HCG2	VAL	A	279	18.301	104.136	157.677	0.00	0.00		H
ATOM	4065	N	LYS	A	280	14.532	102.381	161.069	0.00	0.00		N
ATOM	4066	CA	LYS	A	280	13.294	101.803	161.532	0.00	0.00		C
ATOM	4067	C	LYS	A	280	12.705	102.555	162.680	0.00	0.00		C
ATOM	4068	O	LYS	A	280	11.560	103.057	162.560	0.00	0.00		O
ATOM	4069	CB	LYS	A	280	13.510	100.290	161.828	0.00	0.00		C
ATOM	4070	CG	LYS	A	280	12.276	99.504	162.382	0.00	0.00		C
ATOM	4071	CD	LYS	A	280	12.464	99.000	163.839	0.00	0.00		C
ATOM	4072	CE	LYS	A	280	11.282	98.159	164.383	0.00	0.00		C
ATOM	4073	NZ	LYS	A	280	11.115	96.883	163.675	0.00	0.00		N
ATOM	4074	HN	LYS	A	280	15.301	101.808	160.990	0.00	0.00		H
ATOM	4075	HNZ	LYS	A	280	12.026	96.462	163.495	0.00	0.00		H
ATOM	4076	HNZ	LYS	A	280	10.564	96.248	164.252	0.00	0.00		H
ATOM	4077	HNZ	LYS	A	280	10.627	97.011	162.804	0.00	0.00		H
ATOM	4078	HCA	LYS	A	280	12.597	101.858	160.698	0.00	0.00		H

ATOM	4079	HC	LYS	A	280	13.824	99.823	160.891	0.00	0.00	H
ATOM	4080	HC	LYS	A	280	14.345	100.189	162.516	0.00	0.00	H
ATOM	4081	HCD	LYS	A	280	13.374	98.398	163.901	0.00	0.00	H
ATOM	4082	HCD	LYS	A	280	12.596	99.867	164.493	0.00	0.00	H
ATOM	4083	HCE	LYS	A	280	11.471	97.935	165.435	0.00	0.00	H
ATOM	4084	HCE	LYS	A	280	10.350	98.723	164.322	0.00	0.00	H
ATOM	4085	HCG	LYS	A	280	11.382	100.128	162.339	0.00	0.00	H
ATOM	4086	HCG	LYS	A	280	12.093	98.637	161.744	0.00	0.00	H
ATOM	4087	N	ASP	A	281	13.409	102.752	163.819	0.00	0.00	N
ATOM	4088	CA	ASP	A	281	12.968	103.507	164.957	0.00	0.00	C
ATOM	4089	C	ASP	A	281	12.538	104.887	164.586	0.00	0.00	C
ATOM	4090	O	ASP	A	281	11.453	105.319	165.032	0.00	0.00	O
ATOM	4091	CB	ASP	A	281	14.063	103.533	166.063	0.00	0.00	C
ATOM	4092	CG	ASP	A	281	14.367	102.216	166.649	0.00	0.00	C
ATOM	4093	OD1	ASP	A	281	13.458	101.491	167.106	0.00	0.00	O
ATOM	4094	OD2	ASP	A	281	15.543	101.813	166.769	0.00	0.00	O
ATOM	4095	HN	ASP	A	281	14.274	102.348	163.866	0.00	0.00	H
ATOM	4096	HCA	ASP	A	281	12.097	102.987	165.372	0.00	0.00	H
ATOM	4097	HC	ASP	A	281	14.981	103.972	165.668	0.00	0.00	H
ATOM	4098	HC	ASP	A	281	13.722	104.158	166.890	0.00	0.00	H
ATOM	4099	N	LEU	A	282	13.274	105.689	163.780	0.00	0.00	N
ATOM	4100	CA	LEU	A	282	12.855	106.958	163.229	0.00	0.00	C
ATOM	4101	C	LEU	A	282	11.514	106.889	162.580	0.00	0.00	C
ATOM	4102	O	LEU	A	282	10.599	107.612	163.045	0.00	0.00	O
ATOM	4103	CB	LEU	A	282	13.962	107.494	162.264	0.00	0.00	C
ATOM	4104	CG	LEU	A	282	13.567	108.660	161.300	0.00	0.00	C
ATOM	4105	CD1	LEU	A	282	13.193	109.963	162.054	0.00	0.00	C
ATOM	4106	CD2	LEU	A	282	14.698	108.922	160.272	0.00	0.00	C
ATOM	4107	HN	LEU	A	282	14.140	105.364	163.537	0.00	0.00	H
ATOM	4108	HCA	LEU	A	282	12.786	107.668	164.059	0.00	0.00	H
ATOM	4109	HC	LEU	A	282	14.824	107.805	162.861	0.00	0.00	H
ATOM	4110	HC	LEU	A	282	14.298	106.664	161.646	0.00	0.00	H
ATOM	4111	HCD1	LEU	A	282	12.394	109.781	162.773	0.00	0.00	H
ATOM	4112	HCD1	LEU	A	282	14.058	110.364	162.586	0.00	0.00	H
ATOM	4113	HCD1	LEU	A	282	12.833	110.713	161.347	0.00	0.00	H
ATOM	4114	HCD2	LEU	A	282	14.923	108.014	159.709	0.00	0.00	H
ATOM	4115	HCD2	LEU	A	282	14.383	109.683	159.559	0.00	0.00	H
ATOM	4116	HCD2	LEU	A	282	15.608	109.256	160.773	0.00	0.00	H
ATOM	4117	HCG	LEU	A	282	12.695	108.357	160.712	0.00	0.00	H
ATOM	4118	N	VAL	A	283	11.275	106.094	161.506	0.00	0.00	N
ATOM	4119	CA	VAL	A	283	10.001	106.078	160.814	0.00	0.00	C
ATOM	4120	C	VAL	A	283	8.880	105.585	161.675	0.00	0.00	C
ATOM	4121	O	VAL	A	283	7.758	106.153	161.612	0.00	0.00	O
ATOM	4122	CB	VAL	A	283	10.060	105.391	159.409	0.00	0.00	C
ATOM	4123	CG1	VAL	A	283	11.095	106.077	158.471	0.00	0.00	C
ATOM	4124	CG2	VAL	A	283	10.328	103.868	159.470	0.00	0.00	C
ATOM	4125	HN	VAL	A	283	12.003	105.535	161.201	0.00	0.00	H
ATOM	4126	HCA	VAL	A	283	9.765	107.127	160.597	0.00	0.00	H
ATOM	4127	HC	VAL	A	283	9.078	105.520	158.939	0.00	0.00	H
ATOM	4128	HCG1	VAL	A	283	10.858	107.136	158.348	0.00	0.00	H
ATOM	4129	HCG1	VAL	A	283	12.106	105.991	158.873	0.00	0.00	H
ATOM	4130	HCG1	VAL	A	283	11.080	105.612	157.483	0.00	0.00	H
ATOM	4131	HCG2	VAL	A	283	9.577	103.364	160.080	0.00	0.00	H
ATOM	4132	HCG2	VAL	A	283	10.292	103.434	158.469	0.00	0.00	H
ATOM	4133	HCG2	VAL	A	283	11.310	103.676	159.892	0.00	0.00	H
ATOM	4134	N	VAL	A	284	9.073	104.584	162.572	0.00	0.00	N
ATOM	4135	CA	VAL	A	284	8.114	104.147	163.558	0.00	0.00	C
ATOM	4136	C	VAL	A	284	7.738	105.259	164.481	0.00	0.00	C
ATOM	4137	O	VAL	A	284	6.525	105.535	164.633	0.00	0.00	O
ATOM	4138	CB	VAL	A	284	8.648	102.879	164.311	0.00	0.00	C
ATOM	4139	CG1	VAL	A	284	7.803	102.478	165.557	0.00	0.00	C
ATOM	4140	CG2	VAL	A	284	8.725	101.653	163.357	0.00	0.00	C
ATOM	4141	HN	VAL	A	284	9.920	104.131	162.558	0.00	0.00	H
ATOM	4142	HCA	VAL	A	284	7.214	103.837	163.019	0.00	0.00	H
ATOM	4143	HC	VAL	A	284	9.661	103.094	164.664	0.00	0.00	H
ATOM	4144	HCG1	VAL	A	284	6.759	102.320	165.279	0.00	0.00	H
ATOM	4145	HCG1	VAL	A	284	8.188	101.559	166.004	0.00	0.00	H
ATOM	4146	HCG1	VAL	A	284	7.847	103.256	166.321	0.00	0.00	H
ATOM	4147	HCG2	VAL	A	284	9.260	101.904	162.442	0.00	0.00	H
ATOM	4148	HCG2	VAL	A	284	9.251	100.832	163.842	0.00	0.00	H
ATOM	4149	HCG2	VAL	A	284	7.725	101.311	163.082	0.00	0.00	H
ATOM	4150	N	ARG	A	285	8.663	105.982	165.155	0.00	0.00	N
ATOM	4151	CA	ARG	A	285	8.373	107.100	166.012	0.00	0.00	C
ATOM	4152	C	ARG	A	285	7.682	108.208	165.293	0.00	0.00	C
ATOM	4153	O	ARG	A	285	6.603	108.647	165.758	0.00	0.00	O
ATOM	4154	CB	ARG	A	285	9.685	107.622	166.671	0.00	0.00	C
ATOM	4155	CG	ARG	A	285	10.262	106.676	167.766	0.00	0.00	C
ATOM	4156	CD	ARG	A	285	11.682	107.082	168.233	0.00	0.00	C
ATOM	4157	NE	ARG	A	285	12.607	106.877	167.168	0.00	0.00	N
ATOM	4158	CZ	ARG	A	285	13.885	107.266	167.143	0.00	0.00	C

ATOM	4159	NH1	ARG	A	285	14.479	107.909	168.136	0.00	0.00	N
ATOM	4160	NH2	ARG	A	285	14.604	106.998	166.068	0.00	0.00	N
ATOM	4161	HN	ARG	A	285	9.582	105.737	165.059	0.00	0.00	H
ATOM	4162	HNE	ARG	A	285	12.279	106.392	166.415	0.00	0.00	H
ATOM	4163	HNH1	ARG	A	285	13.982	108.120	168.935	0.00	0.00	H
ATOM	4164	HNH1	ARG	A	285	15.405	108.168	168.058	0.00	0.00	H
ATOM	4165	HNH2	ARG	A	285	14.197	106.555	165.333	0.00	0.00	H
ATOM	4166	HNH2	ARG	A	285	15.532	107.261	166.027	0.00	0.00	H
ATOM	4167	HCA	ARG	A	285	7.716	106.749	166.816	0.00	0.00	H
ATOM	4168	HCB	ARG	A	285	10.428	107.789	165.887	0.00	0.00	H
ATOM	4169	HCB	ARG	A	285	9.494	108.591	167.145	0.00	0.00	H
ATOM	4170	HCD	ARG	A	285	11.677	108.129	168.549	0.00	0.00	H
ATOM	4171	HCD	ARG	A	285	11.972	106.461	169.086	0.00	0.00	H
ATOM	4172	HCG	ARG	A	285	9.595	106.697	168.633	0.00	0.00	H
ATOM	4173	HCG	ARG	A	285	10.288	105.645	167.404	0.00	0.00	H
ATOM	4174	N	ARG	A	286	8.215	108.769	164.178	0.00	0.00	N
ATOM	4175	CA	ARG	A	286	7.692	109.940	163.531	0.00	0.00	C
ATOM	4176	C	ARG	A	286	6.420	109.702	162.785	0.00	0.00	C
ATOM	4177	O	ARG	A	286	5.508	110.554	162.917	0.00	0.00	O
ATOM	4178	CB	ARG	A	286	8.787	110.624	162.653	0.00	0.00	C
ATOM	4179	CG	ARG	A	286	8.449	112.117	162.352	0.00	0.00	C
ATOM	4180	CD	ARG	A	286	9.485	112.892	161.507	0.00	0.00	C
ATOM	4181	NE	ARG	A	286	10.725	113.091	162.190	0.00	0.00	N
ATOM	4182	CZ	ARG	A	286	11.695	113.921	161.788	0.00	0.00	C
ATOM	4183	NH1	ARG	A	286	11.594	114.685	160.712	0.00	0.00	N
ATOM	4184	NH2	ARG	A	286	12.814	114.014	162.483	0.00	0.00	N
ATOM	4185	HN	ARG	A	286	9.006	108.370	163.814	0.00	0.00	H
ATOM	4186	HNE	ARG	A	286	10.892	112.575	162.990	0.00	0.00	H
ATOM	4187	HNH1	ARG	A	286	10.791	114.648	160.183	0.00	0.00	H
ATOM	4188	HNH1	ARG	A	286	12.298	115.277	160.451	0.00	0.00	H
ATOM	4189	HNH2	ARG	A	286	12.940	113.482	163.278	0.00	0.00	H
ATOM	4190	HNH2	ARG	A	286	13.501	114.623	162.182	0.00	0.00	H
ATOM	4191	HCA	ARG	A	286	7.473	110.651	164.337	0.00	0.00	H
ATOM	4192	HCB	ARG	A	286	9.741	110.590	163.186	0.00	0.00	H
ATOM	4193	HCB	ARG	A	286	8.912	110.071	161.717	0.00	0.00	H
ATOM	4194	HCD	ARG	A	286	9.662	112.361	160.574	0.00	0.00	H
ATOM	4195	HCD	ARG	A	286	9.044	113.864	161.260	0.00	0.00	H
ATOM	4196	HCG	ARG	A	286	7.498	112.155	161.814	0.00	0.00	H
ATOM	4197	HCG	ARG	A	286	8.313	112.657	163.294	0.00	0.00	H
ATOM	4198	N	LEU	A	287	6.213	108.623	161.986	0.00	0.00	N
ATOM	4199	CA	LEU	A	287	5.040	108.381	161.178	0.00	0.00	C
ATOM	4200	C	LEU	A	287	4.261	107.253	161.751	0.00	0.00	C
ATOM	4201	O	LEU	A	287	3.035	107.404	161.969	0.00	0.00	O
ATOM	4202	CB	LEU	A	287	5.461	108.104	159.693	0.00	0.00	C
ATOM	4203	CG	LEU	A	287	5.339	109.307	158.703	0.00	0.00	C
ATOM	4204	CD1	LEU	A	287	3.866	109.617	158.322	0.00	0.00	C
ATOM	4205	CD2	LEU	A	287	6.063	110.583	159.202	0.00	0.00	C
ATOM	4206	HN	LEU	A	287	6.871	107.923	161.946	0.00	0.00	H
ATOM	4207	HCA	LEU	A	287	4.375	109.247	161.189	0.00	0.00	H
ATOM	4208	HCB	LEU	A	287	6.494	107.745	159.667	0.00	0.00	H
ATOM	4209	HCB	LEU	A	287	4.859	107.288	159.281	0.00	0.00	H
ATOM	4210	HCD1	LEU	A	287	3.379	108.727	157.919	0.00	0.00	H
ATOM	4211	HCD1	LEU	A	287	3.297	109.961	159.187	0.00	0.00	H
ATOM	4212	HCD1	LEU	A	287	3.828	110.395	157.558	0.00	0.00	H
ATOM	4213	HCD2	LEU	A	287	7.087	110.343	159.494	0.00	0.00	H
ATOM	4214	HCD2	LEU	A	287	6.090	111.330	158.406	0.00	0.00	H
ATOM	4215	HCD2	LEU	A	287	5.551	111.022	160.058	0.00	0.00	H
ATOM	4216	HCG	LEU	A	287	5.841	109.006	157.776	0.00	0.00	H
ATOM	4217	N	GLY	A	288	4.864	106.069	162.008	0.00	0.00	N
ATOM	4218	CA	GLY	A	288	4.186	104.896	162.483	0.00	0.00	C
ATOM	4219	C	GLY	A	288	3.779	103.991	161.394	0.00	0.00	C
ATOM	4220	O	GLY	A	288	2.572	103.673	161.277	0.00	0.00	O
ATOM	4221	HN	GLY	A	288	5.812	106.036	161.859	0.00	0.00	H
ATOM	4222	HCA	GLY	A	288	4.854	104.337	163.135	0.00	0.00	H
ATOM	4223	HCA	GLY	A	288	3.317	105.161	163.092	0.00	0.00	H
ATOM	4224	N	TYR	A	289	4.727	103.470	160.586	0.00	0.00	N
ATOM	4225	CA	TYR	A	289	4.526	102.414	159.632	0.00	0.00	C
ATOM	4226	C	TYR	A	289	4.992	101.129	160.215	0.00	0.00	C
ATOM	4227	O	TYR	A	289	6.002	101.103	160.961	0.00	0.00	O
ATOM	4228	CB	TYR	A	289	5.300	102.700	158.311	0.00	0.00	C
ATOM	4229	CG	TYR	A	289	4.866	103.918	157.573	0.00	0.00	C
ATOM	4230	CD1	TYR	A	289	5.770	104.978	157.324	0.00	0.00	C
ATOM	4231	CD2	TYR	A	289	3.550	104.021	157.062	0.00	0.00	C
ATOM	4232	CE1	TYR	A	289	5.377	106.096	156.565	0.00	0.00	C
ATOM	4233	CE2	TYR	A	289	3.155	105.145	156.312	0.00	0.00	C
ATOM	4234	CZ	TYR	A	289	4.074	106.173	156.041	0.00	0.00	C
ATOM	4235	OH	TYR	A	289	3.697	107.217	155.266	0.00	0.00	O
ATOM	4236	HN	TYR	A	289	5.631	103.794	160.709	0.00	0.00	H
ATOM	4237	HCA	TYR	A	289	3.464	102.301	159.391	0.00	0.00	H
ATOM	4238	HCB	TYR	A	289	6.370	102.753	158.536	0.00	0.00	H

ATOM	4239	HC	B	TYR	A	289	5.166	101.851	157.633	0.00	0.00	H
ATOM	4240	HCD1		TYR	A	289	6.726	104.939	157.685	0.00	0.00	H
ATOM	4241	HCD2		TYR	A	289	2.873	103.272	157.222	0.00	0.00	H
ATOM	4242	HCE1		TYR	A	289	6.042	106.850	156.399	0.00	0.00	H
ATOM	4243	HCE2		TYR	A	289	2.200	105.207	155.956	0.00	0.00	H
ATOM	4244	HOH		TYR	A	289	4.338	107.897	154.974	0.00	0.00	H
ATOM	4245	N		ASP	A	290	4.388	99.967	159.886	0.00	0.00	N
ATOM	4246	CA		ASP	A	290	4.836	98.652	160.211	0.00	0.00	C
ATOM	4247	C		ASP	A	290	6.100	98.387	159.465	0.00	0.00	C
ATOM	4248	O		ASP	A	290	6.098	98.272	158.212	0.00	0.00	O
ATOM	4249	CB		ASP	A	290	3.676	97.645	159.942	0.00	0.00	C
ATOM	4250	CG		ASP	A	290	3.006	97.764	158.630	0.00	0.00	C
ATOM	4251	OD1		ASP	A	290	2.357	98.790	158.309	0.00	0.00	O
ATOM	4252	OD2		ASP	A	290	3.044	96.815	157.823	0.00	0.00	O
ATOM	4253	HN		ASP	A	290	3.618	99.959	159.311	0.00	0.00	H
ATOM	4254	HCA		ASP	A	290	5.040	98.612	161.287	0.00	0.00	H
ATOM	4255	HC	B	ASP	A	290	4.062	96.629	160.060	0.00	0.00	H
ATOM	4256	HC	B	ASP	A	290	2.905	97.783	160.702	0.00	0.00	H
ATOM	4257	N		THR	A	291	7.266	98.420	160.157	0.00	0.00	N
ATOM	4258	CA		THR	A	291	8.578	98.492	159.580	0.00	0.00	C
ATOM	4259	C		THR	A	291	9.425	97.339	159.976	0.00	0.00	C
ATOM	4260	O		THR	A	291	9.624	97.103	161.192	0.00	0.00	O
ATOM	4261	CB		THR	A	291	9.259	99.849	159.911	0.00	0.00	C
ATOM	4262	CG2		THR	A	291	10.615	100.022	159.189	0.00	0.00	C
ATOM	4263	OG1		THR	A	291	8.454	100.945	159.477	0.00	0.00	O
ATOM	4264	HN		THR	A	291	7.203	98.462	161.124	0.00	0.00	H
ATOM	4265	HCA		THR	A	291	8.472	98.481	158.502	0.00	0.00	H
ATOM	4266	HC	B	THR	A	291	9.403	99.934	160.989	0.00	0.00	H
ATOM	4267	HCG2		THR	A	291	11.362	99.336	159.581	0.00	0.00	H
ATOM	4268	HCG2		THR	A	291	10.506	99.826	158.126	0.00	0.00	H
ATOM	4269	HCG2		THR	A	291	10.977	101.039	159.307	0.00	0.00	H
ATOM	4270	HOG1		THR	A	291	7.637	100.935	159.996	0.00	0.00	H
ATOM	4271	N		ARG	A	292	10.018	96.605	159.007	0.00	0.00	N
ATOM	4272	CA		ARG	A	292	10.815	95.420	159.176	0.00	0.00	C
ATOM	4273	C		ARG	A	292	12.225	95.660	158.760	0.00	0.00	C
ATOM	4274	O		ARG	A	292	12.473	96.219	157.664	0.00	0.00	O
ATOM	4275	CB		ARG	A	292	10.158	94.248	158.385	0.00	0.00	C
ATOM	4276	CG		ARG	A	292	10.803	92.856	158.677	0.00	0.00	C
ATOM	4277	CD		ARG	A	292	10.057	91.647	158.054	0.00	0.00	C
ATOM	4278	NE		ARG	A	292	8.764	91.507	158.638	0.00	0.00	N
ATOM	4279	CZ		ARG	A	292	7.917	90.481	158.523	0.00	0.00	C
ATOM	4280	NH1		ARG	A	292	8.117	89.343	157.866	0.00	0.00	N
ATOM	4281	NH2		ARG	A	292	6.747	90.610	159.125	0.00	0.00	N
ATOM	4282	HN		ARG	A	292	9.887	96.948	158.119	0.00	0.00	H
ATOM	4283	HNE		ARG	A	292	8.444	92.250	159.167	0.00	0.00	H
ATOM	4284	HNH1		ARG	A	292	8.915	89.156	157.374	0.00	0.00	H
ATOM	4285	HNH1		ARG	A	292	7.414	88.686	157.872	0.00	0.00	H
ATOM	4286	HNH2		ARG	A	292	6.546	91.416	159.617	0.00	0.00	H
ATOM	4287	HNH2		ARG	A	292	6.091	89.906	159.072	0.00	0.00	H
ATOM	4288	HCA		ARG	A	292	10.814	95.128	160.231	0.00	0.00	H
ATOM	4289	HC	B	ARG	A	292	9.100	94.211	158.657	0.00	0.00	H
ATOM	4290	HC	B	ARG	A	292	10.211	94.455	157.312	0.00	0.00	H
ATOM	4291	HCD		ARG	A	292	9.970	91.802	156.977	0.00	0.00	H
ATOM	4292	HCD		ARG	A	292	10.646	90.743	158.232	0.00	0.00	H
ATOM	4293	HCG		ARG	A	292	11.826	92.855	158.289	0.00	0.00	H
ATOM	4294	HCG		ARG	A	292	10.863	92.699	159.758	0.00	0.00	H
ATOM	4295	N		VAL	A	293	13.228	95.220	159.555	0.00	0.00	N
ATOM	4296	CA		VAL	A	293	14.637	95.277	159.271	0.00	0.00	C
ATOM	4297	C		VAL	A	293	15.050	93.941	158.771	0.00	0.00	C
ATOM	4298	O		VAL	A	293	14.913	92.945	159.523	0.00	0.00	O
ATOM	4299	CB		VAL	A	293	15.447	95.704	160.543	0.00	0.00	C
ATOM	4300	CG1		VAL	A	293	16.986	95.655	160.320	0.00	0.00	C
ATOM	4301	CG2		VAL	A	293	15.051	97.123	161.028	0.00	0.00	C
ATOM	4302	HN		VAL	A	293	12.970	94.778	160.377	0.00	0.00	H
ATOM	4303	HCA		VAL	A	293	14.836	96.019	158.494	0.00	0.00	H
ATOM	4304	HC	B	VAL	A	293	15.211	95.005	161.354	0.00	0.00	H
ATOM	4305	HCG1		VAL	A	293	17.314	94.629	160.154	0.00	0.00	H
ATOM	4306	HCG1		VAL	A	293	17.268	96.251	159.450	0.00	0.00	H
ATOM	4307	HCG1		VAL	A	293	17.522	96.036	161.192	0.00	0.00	H
ATOM	4308	HCG2		VAL	A	293	13.978	97.179	161.201	0.00	0.00	H
ATOM	4309	HCG2		VAL	A	293	15.554	97.353	161.968	0.00	0.00	H
ATOM	4310	HCG2		VAL	A	293	15.330	97.875	160.287	0.00	0.00	H
ATOM	4311	N		THR	A	294	15.598	93.818	157.542	0.00	0.00	N
ATOM	4312	CA		THR	A	294	16.125	92.602	156.977	0.00	0.00	C
ATOM	4313	C		THR	A	294	17.580	92.801	156.763	0.00	0.00	C
ATOM	4314	O		THR	A	294	17.976	93.693	155.973	0.00	0.00	O
ATOM	4315	CB		THR	A	294	15.386	92.220	155.660	0.00	0.00	C
ATOM	4316	CG2		THR	A	294	15.738	90.807	155.136	0.00	0.00	C
ATOM	4317	OG1		THR	A	294	13.973	92.247	155.859	0.00	0.00	O
ATOM	4318	HN		THR	A	294	15.659	94.619	157.017	0.00	0.00	H

ATOM	4319	HCA	THR	A	294	15.984	91.764	157.667	0.00	0.00	H
ATOM	4320	HC	THR	A	294	15.634	92.952	154.890	0.00	0.00	H
ATOM	4321	HCG2	THR	A	294	15.402	90.046	155.843	0.00	0.00	H
ATOM	4322	HCG2	THR	A	294	15.248	90.628	154.177	0.00	0.00	H
ATOM	4323	HCG2	THR	A	294	16.814	90.699	154.995	0.00	0.00	H
ATOM	4324	HOG1	THR	A	294	13.591	92.020	154.984	0.00	0.00	H
ATOM	4325	N	VAL	A	295	18.471	92.012	157.408	0.00	0.00	N
ATOM	4326	CA	VAL	A	295	19.897	92.043	157.238	0.00	0.00	C
ATOM	4327	C	VAL	A	295	20.225	90.894	156.364	0.00	0.00	C
ATOM	4328	O	VAL	A	295	20.003	89.732	156.795	0.00	0.00	O
ATOM	4329	CB	VAL	A	295	20.669	92.017	158.602	0.00	0.00	C
ATOM	4330	CG1	VAL	A	295	22.210	92.106	158.395	0.00	0.00	C
ATOM	4331	CG2	VAL	A	295	20.209	93.155	159.555	0.00	0.00	C
ATOM	4332	HN	VAL	A	295	18.110	91.334	157.999	0.00	0.00	H
ATOM	4333	HCA	VAL	A	295	20.196	92.955	156.721	0.00	0.00	H
ATOM	4334	HC	VAL	A	295	20.455	91.068	159.105	0.00	0.00	H
ATOM	4335	HCG1	VAL	A	295	22.569	91.271	157.791	0.00	0.00	H
ATOM	4336	HCG1	VAL	A	295	22.480	93.040	157.896	0.00	0.00	H
ATOM	4337	HCG1	VAL	A	295	22.728	92.065	159.356	0.00	0.00	H
ATOM	4338	HCG2	VAL	A	295	20.345	94.133	159.089	0.00	0.00	H
ATOM	4339	HCG2	VAL	A	295	19.155	93.032	159.808	0.00	0.00	H
ATOM	4340	HCG2	VAL	A	295	20.778	93.133	160.486	0.00	0.00	H
ATOM	4341	N	LEU	A	296	20.728	91.122	155.122	0.00	0.00	N
ATOM	4342	CA	LEU	A	296	21.053	90.086	154.185	0.00	0.00	C
ATOM	4343	C	LEU	A	296	22.340	89.468	154.610	0.00	0.00	C
ATOM	4344	O	LEU	A	296	22.309	88.453	155.347	0.00	0.00	O
ATOM	4345	CB	LEU	A	296	21.063	90.660	152.731	0.00	0.00	C
ATOM	4346	CG	LEU	A	296	19.665	90.830	152.053	0.00	0.00	C
ATOM	4347	CD1	LEU	A	296	18.840	92.006	152.642	0.00	0.00	C
ATOM	4348	CD2	LEU	A	296	19.834	90.999	150.517	0.00	0.00	C
ATOM	4349	HN	LEU	A	296	20.904	92.035	154.860	0.00	0.00	H
ATOM	4350	HCA	LEU	A	296	20.284	89.305	154.222	0.00	0.00	H
ATOM	4351	HC	LEU	A	296	21.588	91.618	152.714	0.00	0.00	H
ATOM	4352	HC	LEU	A	296	21.641	89.976	152.112	0.00	0.00	H
ATOM	4353	HCD1	LEU	A	296	18.615	91.828	153.693	0.00	0.00	H
ATOM	4354	HCD1	LEU	A	296	19.386	92.946	152.562	0.00	0.00	H
ATOM	4355	HCD1	LEU	A	296	17.890	92.111	152.115	0.00	0.00	H
ATOM	4356	HCD2	LEU	A	296	20.498	91.832	150.291	0.00	0.00	H
ATOM	4357	HCD2	LEU	A	296	20.262	90.095	150.080	0.00	0.00	H
ATOM	4358	HCD2	LEU	A	296	18.873	91.181	150.033	0.00	0.00	H
ATOM	4359	HCG	LEU	A	296	19.087	89.914	152.210	0.00	0.00	H
ATOM	4360	N	GLY	A	297	23.527	90.029	154.269	0.00	0.00	N
ATOM	4361	CA	GLY	A	297	24.810	89.620	154.763	0.00	0.00	C
ATOM	4362	C	GLY	A	297	25.249	88.277	154.323	0.00	0.00	C
ATOM	4363	O	GLY	A	297	24.684	87.265	154.792	0.00	0.00	O
ATOM	4364	HN	GLY	A	297	23.501	90.778	153.676	0.00	0.00	H
ATOM	4365	HCA	GLY	A	297	25.537	90.367	154.436	0.00	0.00	H
ATOM	4366	HCA	GLY	A	297	24.806	89.642	155.856	0.00	0.00	H
ATOM	4367	N	HIS	A	298	26.264	88.153	153.438	0.00	0.00	N
ATOM	4368	CA	HIS	A	298	26.903	86.939	152.993	0.00	0.00	C
ATOM	4369	C	HIS	A	298	26.066	86.020	152.169	0.00	0.00	C
ATOM	4370	O	HIS	A	298	26.636	85.339	151.289	0.00	0.00	O
ATOM	4371	CB	HIS	A	298	27.698	86.222	154.127	0.00	0.00	C
ATOM	4372	CG	HIS	A	298	28.942	86.946	154.464	0.00	0.00	C
ATOM	4373	CD2	HIS	A	298	30.245	86.486	154.331	0.00	0.00	C
ATOM	4374	ND1	HIS	A	298	29.044	88.213	154.880	0.00	0.00	N
ATOM	4375	CE1	HIS	A	298	30.336	88.561	154.915	0.00	0.00	C
ATOM	4376	NE2	HIS	A	298	31.093	87.503	154.571	0.00	0.00	N
ATOM	4377	HN	HIS	A	298	26.623	88.982	153.087	0.00	0.00	H
ATOM	4378	HND1	HIS	A	298	28.301	88.800	155.085	0.00	0.00	H
ATOM	4379	HCA	HIS	A	298	27.644	87.311	152.280	0.00	0.00	H
ATOM	4380	HC	HIS	A	298	27.085	86.114	155.024	0.00	0.00	H
ATOM	4381	HC	HIS	A	298	27.971	85.222	153.786	0.00	0.00	H
ATOM	4382	HCD2	HIS	A	298	30.518	85.541	154.058	0.00	0.00	H
ATOM	4383	HCE1	HIS	A	298	30.692	89.486	155.168	0.00	0.00	H
ATOM	4384	N	VAL	A	299	24.718	85.993	152.247	0.00	0.00	N
ATOM	4385	CA	VAL	A	299	23.826	85.421	151.254	0.00	0.00	C
ATOM	4386	C	VAL	A	299	24.160	85.922	149.886	0.00	0.00	C
ATOM	4387	O	VAL	A	299	24.080	85.203	148.863	0.00	0.00	O
ATOM	4388	CB	VAL	A	299	22.305	85.643	151.583	0.00	0.00	C
ATOM	4389	CG1	VAL	A	299	21.937	85.302	153.051	0.00	0.00	C
ATOM	4390	CG2	VAL	A	299	21.775	87.073	151.280	0.00	0.00	C
ATOM	4391	HN	VAL	A	299	24.385	86.415	153.038	0.00	0.00	H
ATOM	4392	HCA	VAL	A	299	24.007	84.344	151.252	0.00	0.00	H
ATOM	4393	HC	VAL	A	299	21.739	84.954	150.944	0.00	0.00	H
ATOM	4394	HCG1	VAL	A	299	22.280	86.081	153.734	0.00	0.00	H
ATOM	4395	HCG1	VAL	A	299	20.854	85.211	153.139	0.00	0.00	H
ATOM	4396	HCG1	VAL	A	299	22.378	84.364	153.371	0.00	0.00	H
ATOM	4397	HCG2	VAL	A	299	21.837	87.300	150.215	0.00	0.00	H
ATOM	4398	HCG2	VAL	A	299	20.728	87.172	151.574	0.00	0.00	H



ATOM	4399	HCG2	VAL	A	299	22.364	87.797	151.838	0.00	0.00	H
ATOM	4400	N	GLN	A	300	24.629	87.185	149.802	0.00	0.00	N
ATOM	4401	CA	GLN	A	300	25.049	87.904	148.642	0.00	0.00	C
ATOM	4402	C	GLN	A	300	26.235	87.318	148.010	0.00	0.00	C
ATOM	4403	O	GLN	A	300	26.484	87.630	146.853	0.00	0.00	O
ATOM	4404	CB	GLN	A	300	25.265	89.388	149.085	0.00	0.00	C
ATOM	4405	CG	GLN	A	300	24.035	90.021	149.815	0.00	0.00	C
ATOM	4406	CD	GLN	A	300	24.288	91.365	150.356	0.00	0.00	C
ATOM	4407	NE2	GLN	A	300	24.316	91.644	151.662	0.00	0.00	N
ATOM	4408	OE1	GLN	A	300	24.507	92.349	149.623	0.00	0.00	O
ATOM	4409	HN	GLN	A	300	24.712	87.644	150.647	0.00	0.00	H
ATOM	4410	HNE2	GLN	A	300	24.134	91.000	152.337	0.00	0.00	H
ATOM	4411	HNE2	GLN	A	300	24.559	92.545	151.873	0.00	0.00	H
ATOM	4412	HCA	GLN	A	300	24.227	87.875	147.917	0.00	0.00	H
ATOM	4413	HCN	GLN	A	300	26.135	89.437	149.748	0.00	0.00	H
ATOM	4414	HCN	GLN	A	300	25.493	89.990	148.199	0.00	0.00	H
ATOM	4415	HCG	GLN	A	300	23.193	90.073	149.127	0.00	0.00	H
ATOM	4416	HCG	GLN	A	300	23.732	89.396	150.651	0.00	0.00	H
ATOM	4417	N	ARG	A	301	26.998	86.429	148.631	0.00	0.00	N
ATOM	4418	CA	ARG	A	301	28.092	85.696	148.059	0.00	0.00	C
ATOM	4419	C	ARG	A	301	27.634	84.410	147.469	0.00	0.00	C
ATOM	4420	O	ARG	A	301	28.491	83.745	146.841	0.00	0.00	O
ATOM	4421	CB	ARG	A	301	29.145	85.364	149.158	0.00	0.00	C
ATOM	4422	CG	ARG	A	301	29.801	86.585	149.853	0.00	0.00	C
ATOM	4423	CD	ARG	A	301	30.816	86.108	150.926	0.00	0.00	C
ATOM	4424	NE	ARG	A	301	31.478	87.177	151.597	0.00	0.00	N
ATOM	4425	CZ	ARG	A	301	32.388	87.977	151.043	0.00	0.00	C
ATOM	4426	NH1	ARG	A	301	32.879	87.838	149.817	0.00	0.00	N
ATOM	4427	NH2	ARG	A	301	32.841	88.958	151.804	0.00	0.00	N
ATOM	4428	HN	ARG	A	301	26.784	86.169	149.526	0.00	0.00	H
ATOM	4429	HNE	ARG	A	301	31.281	87.335	152.521	0.00	0.00	H
ATOM	4430	HNH1	ARG	A	301	32.625	87.109	149.243	0.00	0.00	H
ATOM	4431	HNH1	ARG	A	301	33.526	88.476	149.491	0.00	0.00	H
ATOM	4432	HNH2	ARG	A	301	32.497	89.043	152.701	0.00	0.00	H
ATOM	4433	HNH2	ARG	A	301	33.491	89.585	151.462	0.00	0.00	H
ATOM	4434	HCA	ARG	A	301	28.583	86.278	147.274	0.00	0.00	H
ATOM	4435	HCN	ARG	A	301	28.683	84.725	149.915	0.00	0.00	H
ATOM	4436	HCN	ARG	A	301	29.947	84.778	148.700	0.00	0.00	H
ATOM	4437	HCD	ARG	A	301	30.276	85.515	151.666	0.00	0.00	H
ATOM	4438	HCD	ARG	A	301	31.563	85.451	150.479	0.00	0.00	H
ATOM	4439	HCG	ARG	A	301	30.306	87.194	149.099	0.00	0.00	H
ATOM	4440	HCG	ARG	A	301	29.038	87.204	150.325	0.00	0.00	H
ATOM	4441	N	GLY	A	302	26.374	83.923	147.607	0.00	0.00	N
ATOM	4442	CA	GLY	A	302	25.997	82.576	147.309	0.00	0.00	C
ATOM	4443	C	GLY	A	302	25.360	82.271	146.009	0.00	0.00	C
ATOM	4444	O	GLY	A	302	25.041	83.146	145.164	0.00	0.00	O
ATOM	4445	HN	GLY	A	302	25.689	84.463	148.007	0.00	0.00	H
ATOM	4446	HCA	GLY	A	302	26.862	81.920	147.408	0.00	0.00	H
ATOM	4447	HCA	GLY	A	302	25.302	82.286	148.098	0.00	0.00	H
ATOM	4448	N	GLY	A	303	25.079	80.963	145.822	0.00	0.00	N
ATOM	4449	CA	GLY	A	303	24.410	80.362	144.707	0.00	0.00	C
ATOM	4450	C	GLY	A	303	25.125	80.312	143.430	0.00	0.00	C
ATOM	4451	O	GLY	A	303	26.266	80.811	143.294	0.00	0.00	O
ATOM	4452	HN	GLY	A	303	25.305	80.398	146.567	0.00	0.00	H
ATOM	4453	HCA	GLY	A	303	24.230	79.317	144.951	0.00	0.00	H
ATOM	4454	HCA	GLY	A	303	23.440	80.844	144.566	0.00	0.00	H
ATOM	4455	N	THR	A	304	24.498	79.679	142.413	0.00	0.00	N
ATOM	4456	CA	THR	A	304	25.045	79.472	141.107	0.00	0.00	C
ATOM	4457	C	THR	A	304	25.459	80.759	140.466	0.00	0.00	C
ATOM	4458	O	THR	A	304	24.650	81.726	140.563	0.00	0.00	O
ATOM	4459	CB	THR	A	304	24.081	78.629	140.218	0.00	0.00	C
ATOM	4460	CG2	THR	A	304	22.743	79.313	139.854	0.00	0.00	C
ATOM	4461	OG1	THR	A	304	24.725	78.264	138.998	0.00	0.00	O
ATOM	4462	HN	THR	A	304	23.614	79.324	142.593	0.00	0.00	H
ATOM	4463	HCA	THR	A	304	25.918	78.839	141.272	0.00	0.00	H
ATOM	4464	HCN	THR	A	304	23.845	77.700	140.749	0.00	0.00	H
ATOM	4465	HCG2	THR	A	304	22.914	80.175	139.207	0.00	0.00	H
ATOM	4466	HCG2	THR	A	304	22.105	78.608	139.318	0.00	0.00	H
ATOM	4467	HCG2	THR	A	304	22.219	79.640	140.752	0.00	0.00	H
ATOM	4468	HOG1	THR	A	304	25.466	77.690	139.253	0.00	0.00	H
ATOM	4469	N	PRO	A	305	26.670	80.941	139.849	0.00	0.00	N
ATOM	4470	CA	PRO	A	305	27.052	82.176	139.230	0.00	0.00	C
ATOM	4471	C	PRO	A	305	26.268	82.474	138.038	0.00	0.00	C
ATOM	4472	O	PRO	A	305	25.914	81.574	137.284	0.00	0.00	O
ATOM	4473	CB	PRO	A	305	28.561	82.031	138.906	0.00	0.00	C
ATOM	4474	CG	PRO	A	305	28.797	80.519	138.849	0.00	0.00	C
ATOM	4475	CD	PRO	A	305	27.690	79.942	139.737	0.00	0.00	C
ATOM	4476	HCA	PRO	A	305	26.931	82.980	139.962	0.00	0.00	H
ATOM	4477	HCN	PRO	A	305	28.857	82.531	137.982	0.00	0.00	H
ATOM	4478	HCN	PRO	A	305	29.168	82.453	139.702	0.00	0.00	H

ATOM	4479	HCD	PRO	A	305	27.300	79.039	139.272	0.00	0.00		H
ATOM	4480	HCD	PRO	A	305	28.091	79.707	140.724	0.00	0.00		H
ATOM	4481	HCG	PRO	A	305	28.668	80.152	137.832	0.00	0.00		H
ATOM	4482	HCG	PRO	A	305	29.794	80.241	139.204	0.00	0.00		H
ATOM	4483	N	SER	A	306	26.037	83.742	137.761	0.00	0.00		N
ATOM	4484	CA	SER	A	306	25.459	84.278	136.567	0.00	0.00		C
ATOM	4485	C	SER	A	306	26.259	83.929	135.371	0.00	0.00		C
ATOM	4486	O	SER	A	306	27.509	83.813	135.446	0.00	0.00		O
ATOM	4487	CB	SER	A	306	25.372	85.825	136.663	0.00	0.00		C
ATOM	4488	OG	SER	A	306	26.668	86.397	136.859	0.00	0.00		O
ATOM	4489	HN	SER	A	306	26.359	84.367	138.401	0.00	0.00		H
ATOM	4490	HCA	SER	A	306	24.446	83.877	136.461	0.00	0.00		H
ATOM	4491	HCB	SER	A	306	24.942	86.243	135.748	0.00	0.00		H
ATOM	4492	HCB	SER	A	306	24.723	86.116	137.492	0.00	0.00		H
ATOM	4493	HOG	SER	A	306	26.868	86.191	137.784	0.00	0.00		H
ATOM	4494	N	ALA	A	307	25.637	83.841	134.177	0.00	0.00		N
ATOM	4495	CA	ALA	A	307	26.305	83.588	132.938	0.00	0.00		C
ATOM	4496	C	ALA	A	307	27.331	84.635	132.695	0.00	0.00		C
ATOM	4497	O	ALA	A	307	28.487	84.299	132.346	0.00	0.00		O
ATOM	4498	CB	ALA	A	307	25.255	83.527	131.812	0.00	0.00		C
ATOM	4499	HN	ALA	A	307	24.705	84.062	134.166	0.00	0.00		H
ATOM	4500	HCA	ALA	A	307	26.792	82.611	133.001	0.00	0.00		H
ATOM	4501	HCB	ALA	A	307	24.719	84.476	131.740	0.00	0.00		H
ATOM	4502	HCB	ALA	A	307	25.742	83.314	130.859	0.00	0.00		H
ATOM	4503	HCB	ALA	A	307	24.535	82.733	132.015	0.00	0.00		H
ATOM	4504	N	PHE	A	308	27.034	85.923	132.989	0.00	0.00		N
ATOM	4505	CA	PHE	A	308	27.955	87.012	132.969	0.00	0.00		C
ATOM	4506	C	PHE	A	308	29.144	86.771	133.842	0.00	0.00		C
ATOM	4507	O	PHE	A	308	30.257	86.743	133.262	0.00	0.00		O
ATOM	4508	CB	PHE	A	308	27.214	88.328	133.333	0.00	0.00		C
ATOM	4509	CG	PHE	A	308	28.071	89.515	133.077	0.00	0.00		C
ATOM	4510	CD1	PHE	A	308	28.251	90.000	131.759	0.00	0.00		C
ATOM	4511	CD2	PHE	A	308	28.766	90.142	134.135	0.00	0.00		C
ATOM	4512	CE1	PHE	A	308	29.119	91.078	131.503	0.00	0.00		C
ATOM	4513	CE2	PHE	A	308	29.631	91.218	133.876	0.00	0.00		C
ATOM	4514	CZ	PHE	A	308	29.815	91.685	132.563	0.00	0.00		C
ATOM	4515	HN	PHE	A	308	26.124	86.115	133.265	0.00	0.00		H
ATOM	4516	HCA	PHE	A	308	28.289	87.102	131.928	0.00	0.00		H
ATOM	4517	HCB	PHE	A	308	26.296	88.422	132.744	0.00	0.00		H
ATOM	4518	HCB	PHE	A	308	26.905	88.290	134.382	0.00	0.00		H
ATOM	4519	HCD1	PHE	A	308	27.755	89.564	130.977	0.00	0.00		H
ATOM	4520	HCD2	PHE	A	308	28.659	89.808	135.096	0.00	0.00		H
ATOM	4521	HCE1	PHE	A	308	29.246	91.417	130.547	0.00	0.00		H
ATOM	4522	HCE2	PHE	A	308	30.131	91.653	134.648	0.00	0.00		H
ATOM	4523	HCZ	PHE	A	308	30.452	92.462	132.379	0.00	0.00		H
ATOM	4524	N	ASP	A	309	29.088	86.545	135.187	0.00	0.00		N
ATOM	4525	CA	ASP	A	309	30.259	86.298	135.996	0.00	0.00		C
ATOM	4526	C	ASP	A	309	31.026	85.095	135.552	0.00	0.00		C
ATOM	4527	O	ASP	A	309	32.279	85.145	135.594	0.00	0.00		O
ATOM	4528	CB	ASP	A	309	29.941	86.230	137.520	0.00	0.00		C
ATOM	4529	CG	ASP	A	309	29.704	87.541	138.153	0.00	0.00		C
ATOM	4530	OD1	ASP	A	309	30.538	88.465	138.066	0.00	0.00		O
ATOM	4531	OD2	ASP	A	309	28.730	87.754	138.902	0.00	0.00		O
ATOM	4532	HN	ASP	A	309	28.239	86.536	135.644	0.00	0.00		H
ATOM	4533	HCA	ASP	A	309	30.917	87.160	135.852	0.00	0.00		H
ATOM	4534	HCB	ASP	A	309	29.097	85.562	137.694	0.00	0.00		H
ATOM	4535	HCB	ASP	A	309	30.800	85.810	138.048	0.00	0.00		H
ATOM	4536	N	ARG	A	310	30.429	83.974	135.074	0.00	0.00		N
ATOM	4537	CA	ARG	A	310	31.149	82.860	134.498	0.00	0.00		C
ATOM	4538	C	ARG	A	310	31.945	83.224	133.290	0.00	0.00		C
ATOM	4539	O	ARG	A	310	33.161	82.920	133.227	0.00	0.00		O
ATOM	4540	CB	ARG	A	310	30.194	81.712	134.094	0.00	0.00		C
ATOM	4541	CG	ARG	A	310	29.421	81.077	135.273	0.00	0.00		C
ATOM	4542	CD	ARG	A	310	28.503	79.949	134.765	0.00	0.00		C
ATOM	4543	NE	ARG	A	310	27.285	79.803	135.475	0.00	0.00		N
ATOM	4544	CZ	ARG	A	310	26.420	78.829	135.214	0.00	0.00		C
ATOM	4545	NH1	ARG	A	310	26.589	77.909	134.275	0.00	0.00		N
ATOM	4546	NH2	ARG	A	310	25.294	78.832	135.890	0.00	0.00		N
ATOM	4547	HN	ARG	A	310	29.468	83.932	135.136	0.00	0.00		H
ATOM	4548	HNE	ARG	A	310	26.979	80.450	136.110	0.00	0.00		H
ATOM	4549	HNH1	ARG	A	310	27.342	77.933	133.694	0.00	0.00		H
ATOM	4550	HNH1	ARG	A	310	25.909	77.254	134.112	0.00	0.00		H
ATOM	4551	HNH2	ARG	A	310	25.139	79.500	136.565	0.00	0.00		H
ATOM	4552	HNH2	ARG	A	310	24.652	78.178	135.613	0.00	0.00		H
ATOM	4553	HCA	ARG	A	310	31.830	82.472	135.260	0.00	0.00		H
ATOM	4554	HCB	ARG	A	310	29.475	82.094	133.364	0.00	0.00		H
ATOM	4555	HCB	ARG	A	310	30.773	80.917	133.608	0.00	0.00		H
ATOM	4556	HCD	ARG	A	310	28.226	80.139	133.726	0.00	0.00		H
ATOM	4557	HCD	ARG	A	310	29.062	79.016	134.810	0.00	0.00		H
ATOM	4558	HCG	ARG	A	310	30.129	80.677	136.003	0.00	0.00		H

ATOM	4559	HCG	ARG	A	310	28.821	81.832	135.764	0.00	0.00	H
ATOM	4560	N	ILE	A	311	31.349	83.842	132.243	0.00	0.00	N
ATOM	4561	CA	ILE	A	311	31.999	84.284	131.035	0.00	0.00	C
ATOM	4562	C	ILE	A	311	33.105	85.221	131.367	0.00	0.00	C
ATOM	4563	O	ILE	A	311	34.245	85.037	130.877	0.00	0.00	O
ATOM	4564	CB	ILE	A	311	30.926	84.902	130.072	0.00	0.00	C
ATOM	4565	CG1	ILE	A	311	29.947	83.795	129.553	0.00	0.00	C
ATOM	4566	CG2	ILE	A	311	31.559	85.693	128.886	0.00	0.00	C
ATOM	4567	CD1	ILE	A	311	28.601	84.341	129.031	0.00	0.00	C
ATOM	4568	HN	ILE	A	311	30.406	84.008	132.314	0.00	0.00	H
ATOM	4569	HCA	ILE	A	311	32.431	83.409	130.538	0.00	0.00	H
ATOM	4570	HCB	ILE	A	311	30.344	85.626	130.654	0.00	0.00	H
ATOM	4571	HCD1	ILE	A	311	28.134	84.990	129.772	0.00	0.00	H
ATOM	4572	HCD1	ILE	A	311	28.751	84.904	128.116	0.00	0.00	H
ATOM	4573	HCD1	ILE	A	311	27.920	83.519	128.814	0.00	0.00	H
ATOM	4574	HCG1	ILE	A	311	30.420	83.214	128.761	0.00	0.00	H
ATOM	4575	HCG1	ILE	A	311	29.715	83.094	130.356	0.00	0.00	H
ATOM	4576	HCG2	ILE	A	311	32.068	86.584	129.255	0.00	0.00	H
ATOM	4577	HCG2	ILE	A	311	32.280	85.076	128.351	0.00	0.00	H
ATOM	4578	HCG2	ILE	A	311	30.799	86.026	128.183	0.00	0.00	H
ATOM	4579	N	LEU	A	312	32.888	86.235	132.233	0.00	0.00	N
ATOM	4580	CA	LEU	A	312	33.874	87.146	132.724	0.00	0.00	C
ATOM	4581	C	LEU	A	312	35.016	86.425	133.355	0.00	0.00	C
ATOM	4582	O	LEU	A	312	36.165	86.614	132.895	0.00	0.00	O
ATOM	4583	CB	LEU	A	312	33.158	88.133	133.690	0.00	0.00	C
ATOM	4584	CG	LEU	A	312	33.977	89.380	134.127	0.00	0.00	C
ATOM	4585	CD1	LEU	A	312	34.343	90.286	132.929	0.00	0.00	C
ATOM	4586	CD2	LEU	A	312	33.188	90.193	135.190	0.00	0.00	C
ATOM	4587	HN	LEU	A	312	31.996	86.355	132.561	0.00	0.00	H
ATOM	4588	HCA	LEU	A	312	34.236	87.708	131.859	0.00	0.00	H
ATOM	4589	HCB	LEU	A	312	32.237	88.492	133.219	0.00	0.00	H
ATOM	4590	HCB	LEU	A	312	32.866	87.578	134.583	0.00	0.00	H
ATOM	4591	HCD1	LEU	A	312	33.476	90.444	132.286	0.00	0.00	H
ATOM	4592	HCD1	LEU	A	312	34.688	91.252	133.292	0.00	0.00	H
ATOM	4593	HCD1	LEU	A	312	35.146	89.839	132.341	0.00	0.00	H
ATOM	4594	HCD2	LEU	A	312	32.334	90.687	134.733	0.00	0.00	H
ATOM	4595	HCD2	LEU	A	312	32.816	89.551	135.992	0.00	0.00	H
ATOM	4596	HCD2	LEU	A	312	33.830	90.951	135.639	0.00	0.00	H
ATOM	4597	HCG	LEU	A	312	34.911	89.047	134.581	0.00	0.00	H
ATOM	4598	N	GLY	A	313	34.823	85.507	134.335	0.00	0.00	N
ATOM	4599	CA	GLY	A	313	35.815	84.638	134.902	0.00	0.00	C
ATOM	4600	C	GLY	A	313	36.615	83.907	133.902	0.00	0.00	C
ATOM	4601	O	GLY	A	313	37.863	83.937	133.970	0.00	0.00	O
ATOM	4602	HN	GLY	A	313	33.941	85.421	134.696	0.00	0.00	H
ATOM	4603	HCA	GLY	A	313	36.475	85.209	135.556	0.00	0.00	H
ATOM	4604	HCA	GLY	A	313	35.300	83.903	135.521	0.00	0.00	H
ATOM	4605	N	SER	A	314	36.000	83.238	132.905	0.00	0.00	N
ATOM	4606	CA	SER	A	314	36.663	82.569	131.819	0.00	0.00	C
ATOM	4607	C	SER	A	314	37.571	83.455	131.032	0.00	0.00	C
ATOM	4608	O	SER	A	314	38.789	83.165	130.910	0.00	0.00	O
ATOM	4609	CB	SER	A	314	35.629	81.862	130.905	0.00	0.00	C
ATOM	4610	OG	SER	A	314	34.714	81.058	131.652	0.00	0.00	O
ATOM	4611	HN	SER	A	314	35.048	83.183	132.962	0.00	0.00	H
ATOM	4612	HCA	SER	A	314	37.262	81.786	132.276	0.00	0.00	H
ATOM	4613	HCB	SER	A	314	35.056	82.589	130.326	0.00	0.00	H
ATOM	4614	HCB	SER	A	314	36.157	81.210	130.206	0.00	0.00	H
ATOM	4615	HOG	SER	A	314	34.187	81.677	132.180	0.00	0.00	H
ATOM	4616	N	ARG	A	315	37.087	84.599	130.491	0.00	0.00	N
ATOM	4617	CA	ARG	A	315	37.852	85.588	129.771	0.00	0.00	C
ATOM	4618	C	ARG	A	315	39.023	86.076	130.559	0.00	0.00	C
ATOM	4619	O	ARG	A	315	40.180	86.060	130.065	0.00	0.00	O
ATOM	4620	CB	ARG	A	315	36.920	86.778	129.386	0.00	0.00	C
ATOM	4621	CG	ARG	A	315	35.850	86.425	128.313	0.00	0.00	C
ATOM	4622	CD	ARG	A	315	34.834	87.566	128.041	0.00	0.00	C
ATOM	4623	NE	ARG	A	315	35.496	88.651	127.398	0.00	0.00	N
ATOM	4624	CZ	ARG	A	315	34.964	89.823	127.043	0.00	0.00	C
ATOM	4625	NH1	ARG	A	315	33.702	90.185	127.237	0.00	0.00	N
ATOM	4626	NH2	ARG	A	315	35.790	90.670	126.459	0.00	0.00	N
ATOM	4627	HN	ARG	A	315	36.151	84.763	130.620	0.00	0.00	H
ATOM	4628	HNE	ARG	A	315	36.430	88.528	127.188	0.00	0.00	H
ATOM	4629	HNH1	ARG	A	315	33.104	89.587	127.699	0.00	0.00	H
ATOM	4630	HNH1	ARG	A	315	33.365	91.020	126.897	0.00	0.00	H
ATOM	4631	HNH2	ARG	A	315	36.690	90.399	126.252	0.00	0.00	H
ATOM	4632	HNH2	ARG	A	315	35.506	91.559	126.274	0.00	0.00	H
ATOM	4633	HCA	ARG	A	315	38.226	85.130	128.850	0.00	0.00	H
ATOM	4634	HCB	ARG	A	315	36.419	87.147	130.284	0.00	0.00	H
ATOM	4635	HCB	ARG	A	315	37.534	87.596	128.996	0.00	0.00	H
ATOM	4636	HCD	ARG	A	315	34.039	87.188	127.391	0.00	0.00	H
ATOM	4637	HCD	ARG	A	315	34.385	87.893	128.984	0.00	0.00	H
ATOM	4638	HCG	ARG	A	315	36.363	86.168	127.385	0.00	0.00	H

ATOM	4639	HCG	ARG	A	315	35.292	85.541	128.624	0.00	0.00	H
ATOM	4640	N	MET	A	316	38.827	86.496	131.829	0.00	0.00	N
ATOM	4641	CA	MET	A	316	39.839	86.906	132.754	0.00	0.00	C
ATOM	4642	C	MET	A	316	40.858	85.836	132.965	0.00	0.00	C
ATOM	4643	O	MET	A	316	42.060	86.154	132.887	0.00	0.00	O
ATOM	4644	CB	MET	A	316	39.164	87.315	134.090	0.00	0.00	C
ATOM	4645	CG	MET	A	316	38.252	88.572	134.031	0.00	0.00	C
ATOM	4646	SD	MET	A	316	39.116	90.100	134.474	0.00	0.00	S
ATOM	4647	CE	MET	A	316	37.693	91.006	135.124	0.00	0.00	C
ATOM	4648	HN	MET	A	316	37.927	86.508	132.153	0.00	0.00	H
ATOM	4649	HCA	MET	A	316	40.335	87.794	132.348	0.00	0.00	H
ATOM	4650	HCB	MET	A	316	38.573	86.469	134.450	0.00	0.00	H
ATOM	4651	HCB	MET	A	316	39.939	87.493	134.831	0.00	0.00	H
ATOM	4652	HCE	MET	A	316	37.283	90.491	135.994	0.00	0.00	H
ATOM	4653	HCE	MET	A	316	38.000	92.003	135.429	0.00	0.00	H
ATOM	4654	HCE	MET	A	316	36.925	91.092	134.358	0.00	0.00	H
ATOM	4655	HCG	MET	A	316	37.807	88.702	133.043	0.00	0.00	H
ATOM	4656	HCG	MET	A	316	37.440	88.419	134.737	0.00	0.00	H
ATOM	4657	N	GLY	A	317	40.542	84.544	133.215	0.00	0.00	N
ATOM	4658	CA	GLY	A	317	41.462	83.439	133.293	0.00	0.00	C
ATOM	4659	C	GLY	A	317	42.323	83.235	132.104	0.00	0.00	C
ATOM	4660	O	GLY	A	317	43.567	83.099	132.242	0.00	0.00	O
ATOM	4661	HN	GLY	A	317	39.623	84.352	133.391	0.00	0.00	H
ATOM	4662	HCA	GLY	A	317	42.086	83.575	134.176	0.00	0.00	H
ATOM	4663	HCA	GLY	A	317	40.878	82.530	133.437	0.00	0.00	H
ATOM	4664	N	VAL	A	318	41.764	83.226	130.869	0.00	0.00	N
ATOM	4665	CA	VAL	A	318	42.521	83.200	129.635	0.00	0.00	C
ATOM	4666	C	VAL	A	318	43.510	84.318	129.611	0.00	0.00	C
ATOM	4667	O	VAL	A	318	44.739	84.071	129.471	0.00	0.00	O
ATOM	4668	CB	VAL	A	318	41.579	83.237	128.382	0.00	0.00	C
ATOM	4669	CG1	VAL	A	318	42.370	83.296	127.040	0.00	0.00	C
ATOM	4670	CG2	VAL	A	318	40.579	82.046	128.328	0.00	0.00	C
ATOM	4671	HN	VAL	A	318	40.801	83.250	130.834	0.00	0.00	H
ATOM	4672	HCA	VAL	A	318	43.078	82.263	129.604	0.00	0.00	H
ATOM	4673	HCB	VAL	A	318	40.980	84.152	128.445	0.00	0.00	H
ATOM	4674	HCG1	VAL	A	318	43.050	82.445	126.958	0.00	0.00	H
ATOM	4675	HCG1	VAL	A	318	41.689	83.278	126.190	0.00	0.00	H
ATOM	4676	HCG1	VAL	A	318	42.953	84.215	126.969	0.00	0.00	H
ATOM	4677	HCG2	VAL	A	318	41.026	81.170	127.860	0.00	0.00	H
ATOM	4678	HCG2	VAL	A	318	40.230	81.755	129.317	0.00	0.00	H
ATOM	4679	HCG2	VAL	A	318	39.708	82.334	127.743	0.00	0.00	H
ATOM	4680	N	GLU	A	319	43.069	85.591	129.777	0.00	0.00	N
ATOM	4681	CA	GLU	A	319	43.923	86.743	129.790	0.00	0.00	C
ATOM	4682	C	GLU	A	319	44.995	86.638	130.820	0.00	0.00	C
ATOM	4683	O	GLU	A	319	46.165	86.923	130.490	0.00	0.00	O
ATOM	4684	CB	GLU	A	319	43.077	88.045	129.924	0.00	0.00	C
ATOM	4685	CG	GLU	A	319	43.876	89.351	129.638	0.00	0.00	C
ATOM	4686	CD	GLU	A	319	44.461	89.404	128.286	0.00	0.00	C
ATOM	4687	OE1	GLU	A	319	43.736	89.498	127.274	0.00	0.00	O
ATOM	4688	OE2	GLU	A	319	45.698	89.321	128.117	0.00	0.00	O
ATOM	4689	HN	GLU	A	319	42.123	85.728	129.885	0.00	0.00	H
ATOM	4690	HCA	GLU	A	319	44.398	86.766	128.804	0.00	0.00	H
ATOM	4691	HCB	GLU	A	319	42.239	87.998	129.222	0.00	0.00	H
ATOM	4692	HCB	GLU	A	319	42.654	88.100	130.931	0.00	0.00	H
ATOM	4693	HCG	GLU	A	319	43.217	90.214	129.754	0.00	0.00	H
ATOM	4694	HCG	GLU	A	319	44.676	89.453	130.371	0.00	0.00	H
ATOM	4695	N	ALA	A	320	44.749	86.192	132.073	0.00	0.00	N
ATOM	4696	CA	ALA	A	320	45.711	85.904	133.094	0.00	0.00	C
ATOM	4697	C	ALA	A	320	46.784	84.984	132.656	0.00	0.00	C
ATOM	4698	O	ALA	A	320	47.968	85.382	132.740	0.00	0.00	O
ATOM	4699	CB	ALA	A	320	45.016	85.346	134.363	0.00	0.00	C
ATOM	4700	HN	ALA	A	320	43.834	86.104	132.312	0.00	0.00	H
ATOM	4701	HCA	ALA	A	320	46.175	86.853	133.359	0.00	0.00	H
ATOM	4702	HCB	ALA	A	320	44.265	86.046	134.726	0.00	0.00	H
ATOM	4703	HCB	ALA	A	320	44.528	84.396	134.163	0.00	0.00	H
ATOM	4704	HCB	ALA	A	320	45.747	85.187	135.159	0.00	0.00	H
ATOM	4705	N	VAL	A	321	46.513	83.753	132.163	0.00	0.00	N
ATOM	4706	CA	VAL	A	321	47.542	82.850	131.695	0.00	0.00	C
ATOM	4707	C	VAL	A	321	48.359	83.469	130.610	0.00	0.00	C
ATOM	4708	O	VAL	A	321	49.616	83.432	130.691	0.00	0.00	O
ATOM	4709	CB	VAL	A	321	46.952	81.458	131.305	0.00	0.00	C
ATOM	4710	CG1	VAL	A	321	48.019	80.507	130.690	0.00	0.00	C
ATOM	4711	CG2	VAL	A	321	46.322	80.764	132.542	0.00	0.00	C
ATOM	4712	HN	VAL	A	321	45.582	83.491	132.134	0.00	0.00	H
ATOM	4713	HCA	VAL	A	321	48.217	82.670	132.538	0.00	0.00	H
ATOM	4714	HCB	VAL	A	321	46.162	81.614	130.564	0.00	0.00	H
ATOM	4715	HCG1	VAL	A	321	48.892	80.430	131.343	0.00	0.00	H
ATOM	4716	HCG1	VAL	A	321	47.612	79.507	130.546	0.00	0.00	H
ATOM	4717	HCG1	VAL	A	321	48.340	80.875	129.715	0.00	0.00	H
ATOM	4718	HCG2	VAL	A	321	47.078	80.578	133.306	0.00	0.00	H

ATOM	4719	HCG2	VAL	A	321	45.537	81.383	132.975	0.00	0.00		H
ATOM	4720	HCG2	VAL	A	321	45.882	79.810	132.256	0.00	0.00		H
ATOM	4721	N	MET	A	322	47.763	84.115	129.579	0.00	0.00		N
ATOM	4722	CA	MET	A	322	48.494	84.802	128.543	0.00	0.00		C
ATOM	4723	C	MET	A	322	49.392	85.869	129.087	0.00	0.00		C
ATOM	4724	O	MET	A	322	50.619	85.816	128.841	0.00	0.00		O
ATOM	4725	CB	MET	A	322	47.506	85.331	127.461	0.00	0.00		C
ATOM	4726	CG	MET	A	322	46.756	84.204	126.697	0.00	0.00		C
ATOM	4727	SD	MET	A	322	47.872	83.240	125.640	0.00	0.00		S
ATOM	4728	CE	MET	A	322	47.046	81.639	125.762	0.00	0.00		C
ATOM	4729	HN	MET	A	322	46.797	84.121	129.551	0.00	0.00		H
ATOM	4730	HCA	MET	A	322	49.139	84.062	128.058	0.00	0.00		H
ATOM	4731	HCB	MET	A	322	46.769	85.984	127.937	0.00	0.00		H
ATOM	4732	HCB	MET	A	322	48.052	85.936	126.732	0.00	0.00		H
ATOM	4733	HCE	MET	A	322	46.005	81.723	125.446	0.00	0.00		H
ATOM	4734	HCE	MET	A	322	47.558	80.924	125.118	0.00	0.00		H
ATOM	4735	HCE	MET	A	322	47.090	81.279	126.791	0.00	0.00		H
ATOM	4736	HCG	MET	A	322	46.254	83.554	127.414	0.00	0.00		H
ATOM	4737	HCG	MET	A	322	45.989	84.647	126.058	0.00	0.00		H
ATOM	4738	N	ALA	A	323	48.929	86.837	129.911	0.00	0.00		N
ATOM	4739	CA	ALA	A	323	49.692	87.861	130.569	0.00	0.00		C
ATOM	4740	C	ALA	A	323	50.810	87.332	131.400	0.00	0.00		C
ATOM	4741	O	ALA	A	323	51.944	87.855	131.278	0.00	0.00		O
ATOM	4742	CB	ALA	A	323	48.724	88.723	131.416	0.00	0.00		C
ATOM	4743	HN	ALA	A	323	47.993	86.835	130.085	0.00	0.00		H
ATOM	4744	HCA	ALA	A	323	50.111	88.510	129.794	0.00	0.00		H
ATOM	4745	HCB	ALA	A	323	48.244	88.121	132.188	0.00	0.00		H
ATOM	4746	HCB	ALA	A	323	49.262	89.544	131.896	0.00	0.00		H
ATOM	4747	HCB	ALA	A	323	47.943	89.149	130.783	0.00	0.00		H
ATOM	4748	N	LEU	A	324	50.630	86.287	132.246	0.00	0.00		N
ATOM	4749	CA	LEU	A	324	51.671	85.600	132.962	0.00	0.00		C
ATOM	4750	C	LEU	A	324	52.722	85.095	132.041	0.00	0.00		C
ATOM	4751	O	LEU	A	324	53.904	85.470	132.207	0.00	0.00		O
ATOM	4752	CB	LEU	A	324	51.109	84.406	133.798	0.00	0.00		C
ATOM	4753	CG	LEU	A	324	50.285	84.768	135.070	0.00	0.00		C
ATOM	4754	CD1	LEU	A	324	49.534	83.531	135.628	0.00	0.00		C
ATOM	4755	CD2	LEU	A	324	51.138	85.414	136.193	0.00	0.00		C
ATOM	4756	HN	LEU	A	324	49.736	85.974	132.369	0.00	0.00		H
ATOM	4757	HCA	LEU	A	324	52.135	86.319	133.641	0.00	0.00		H
ATOM	4758	HCB	LEU	A	324	50.485	83.799	133.139	0.00	0.00		H
ATOM	4759	HCB	LEU	A	324	51.940	83.771	134.108	0.00	0.00		H
ATOM	4760	HCD1	LEU	A	324	48.840	83.134	134.886	0.00	0.00		H
ATOM	4761	HCD1	LEU	A	324	50.227	82.740	135.915	0.00	0.00		H
ATOM	4762	HCD1	LEU	A	324	48.955	83.820	136.504	0.00	0.00		H
ATOM	4763	HCD2	LEU	A	324	51.958	84.764	136.488	0.00	0.00		H
ATOM	4764	HCD2	LEU	A	324	51.549	86.367	135.871	0.00	0.00		H
ATOM	4765	HCD2	LEU	A	324	50.524	85.608	137.070	0.00	0.00		H
ATOM	4766	HCG	LEU	A	324	49.521	85.486	134.779	0.00	0.00		H
ATOM	4767	N	LEU	A	325	52.438	84.241	131.032	0.00	0.00		N
ATOM	4768	CA	LEU	A	325	53.439	83.678	130.162	0.00	0.00		C
ATOM	4769	C	LEU	A	325	54.148	84.698	129.340	0.00	0.00		C
ATOM	4770	O	LEU	A	325	55.390	84.604	129.189	0.00	0.00		O
ATOM	4771	CB	LEU	A	325	52.810	82.558	129.297	0.00	0.00		C
ATOM	4772	CG	LEU	A	325	52.278	81.337	130.113	0.00	0.00		C
ATOM	4773	CD1	LEU	A	325	51.467	80.401	129.190	0.00	0.00		C
ATOM	4774	CD2	LEU	A	325	53.400	80.529	130.822	0.00	0.00		C
ATOM	4775	HN	LEU	A	325	51.517	83.988	130.906	0.00	0.00		H
ATOM	4776	HCA	LEU	A	325	54.201	83.215	130.795	0.00	0.00		H
ATOM	4777	HCB	LEU	A	325	51.992	82.998	128.718	0.00	0.00		H
ATOM	4778	HCB	LEU	A	325	53.560	82.201	128.587	0.00	0.00		H
ATOM	4779	HCD1	LEU	A	325	52.102	79.962	128.418	0.00	0.00		H
ATOM	4780	HCD1	LEU	A	325	51.028	79.601	129.787	0.00	0.00		H
ATOM	4781	HCD1	LEU	A	325	50.657	80.949	128.703	0.00	0.00		H
ATOM	4782	HCD2	LEU	A	325	53.844	81.106	131.633	0.00	0.00		H
ATOM	4783	HCD2	LEU	A	325	53.001	79.611	131.258	0.00	0.00		H
ATOM	4784	HCD2	LEU	A	325	54.180	80.266	130.108	0.00	0.00		H
ATOM	4785	HCG	LEU	A	325	51.591	81.695	130.887	0.00	0.00		H
ATOM	4786	N	GLU	A	326	53.489	85.753	128.811	0.00	0.00		N
ATOM	4787	CA	GLU	A	326	54.107	86.895	128.195	0.00	0.00		C
ATOM	4788	C	GLU	A	326	54.861	87.763	129.153	0.00	0.00		C
ATOM	4789	O	GLU	A	326	55.501	88.734	128.682	0.00	0.00		O
ATOM	4790	CB	GLU	A	326	52.998	87.709	127.458	0.00	0.00		C
ATOM	4791	CG	GLU	A	326	52.360	86.971	126.243	0.00	0.00		C
ATOM	4792	CD	GLU	A	326	51.260	87.737	125.636	0.00	0.00		C
ATOM	4793	OE1	GLU	A	326	51.447	88.894	125.205	0.00	0.00		O
ATOM	4794	OE2	GLU	A	326	50.092	87.300	125.566	0.00	0.00		O
ATOM	4795	HN	GLU	A	326	52.534	85.760	128.876	0.00	0.00		H
ATOM	4796	HCA	GLU	A	326	54.824	86.545	127.445	0.00	0.00		H
ATOM	4797	HCB	GLU	A	326	52.216	87.976	128.176	0.00	0.00		H
ATOM	4798	HCB	GLU	A	326	53.428	88.645	127.085	0.00	0.00		H

ATOM	4799	HCG	GLU	A	326	53.119	86.806	125.476	0.00	0.00	H
ATOM	4800	HCG	GLU	A	326	51.981	85.995	126.552	0.00	0.00	H
ATOM	4801	N	GLY	A	327	54.897	87.555	130.495	0.00	0.00	N
ATOM	4802	CA	GLY	A	327	55.555	88.387	131.455	0.00	0.00	C
ATOM	4803	C	GLY	A	327	57.011	88.145	131.552	0.00	0.00	C
ATOM	4804	O	GLY	A	327	57.437	86.994	131.822	0.00	0.00	O
ATOM	4805	HN	GLY	A	327	54.469	86.790	130.881	0.00	0.00	H
ATOM	4806	HCA	GLY	A	327	55.350	89.434	131.230	0.00	0.00	H
ATOM	4807	HCA	GLY	A	327	55.110	88.182	132.428	0.00	0.00	H
ATOM	4808	N	THR	A	328	57.852	89.187	131.366	0.00	0.00	N
ATOM	4809	CA	THR	A	328	59.291	89.162	131.337	0.00	0.00	C
ATOM	4810	C	THR	A	328	59.888	89.777	132.564	0.00	0.00	C
ATOM	4811	O	THR	A	328	59.156	90.546	133.239	0.00	0.00	O
ATOM	4812	CB	THR	A	328	59.790	89.982	130.100	0.00	0.00	C
ATOM	4813	CG2	THR	A	328	59.067	89.669	128.770	0.00	0.00	C
ATOM	4814	OG1	THR	A	328	59.683	91.386	130.352	0.00	0.00	O
ATOM	4815	HN	THR	A	328	57.459	90.046	131.221	0.00	0.00	H
ATOM	4816	HCA	THR	A	328	59.635	88.130	131.240	0.00	0.00	H
ATOM	4817	HC	THR	A	328	60.849	89.772	129.935	0.00	0.00	H
ATOM	4818	HCG2	THR	A	328	59.104	88.598	128.562	0.00	0.00	H
ATOM	4819	HCG2	THR	A	328	58.023	89.985	128.810	0.00	0.00	H
ATOM	4820	HCG2	THR	A	328	59.553	90.200	127.949	0.00	0.00	H
ATOM	4821	HOG1	THR	A	328	58.738	91.543	130.518	0.00	0.00	H
ATOM	4822	N	PRO	A	329	61.212	89.680	132.907	0.00	0.00	N
ATOM	4823	CA	PRO	A	329	61.842	90.541	133.884	0.00	0.00	C
ATOM	4824	C	PRO	A	329	61.702	91.991	133.720	0.00	0.00	C
ATOM	4825	O	PRO	A	329	62.147	92.690	134.622	0.00	0.00	O
ATOM	4826	CB	PRO	A	329	63.335	90.123	133.864	0.00	0.00	C
ATOM	4827	CG	PRO	A	329	63.299	88.681	133.354	0.00	0.00	C
ATOM	4828	CD	PRO	A	329	62.117	88.699	132.375	0.00	0.00	C
ATOM	4829	HCA	PRO	A	329	61.416	90.277	134.858	0.00	0.00	H
ATOM	4830	HC	PRO	A	329	63.914	90.737	133.165	0.00	0.00	H
ATOM	4831	HC	PRO	A	329	63.791	90.187	134.855	0.00	0.00	H
ATOM	4832	HCD	PRO	A	329	62.470	88.995	131.385	0.00	0.00	H
ATOM	4833	HCD	PRO	A	329	61.675	87.701	132.325	0.00	0.00	H
ATOM	4834	HCG	PRO	A	329	64.233	88.396	132.864	0.00	0.00	H
ATOM	4835	HCG	PRO	A	329	63.096	87.993	134.181	0.00	0.00	H
ATOM	4836	N	ASP	A	330	61.113	92.558	132.677	0.00	0.00	N
ATOM	4837	CA	ASP	A	330	60.884	93.965	132.479	0.00	0.00	C
ATOM	4838	C	ASP	A	330	59.425	94.275	132.470	0.00	0.00	C
ATOM	4839	O	ASP	A	330	59.076	95.470	132.309	0.00	0.00	O
ATOM	4840	CB	ASP	A	330	61.581	94.378	131.149	0.00	0.00	C
ATOM	4841	CG	ASP	A	330	63.039	94.187	131.182	0.00	0.00	C
ATOM	4842	OD1	ASP	A	330	63.755	94.837	131.973	0.00	0.00	O
ATOM	4843	OD2	ASP	A	330	63.609	93.379	130.420	0.00	0.00	O
ATOM	4844	HN	ASP	A	330	60.756	92.010	131.972	0.00	0.00	H
ATOM	4845	HCA	ASP	A	330	61.312	94.566	133.289	0.00	0.00	H
ATOM	4846	HC	ASP	A	330	61.158	93.804	130.320	0.00	0.00	H
ATOM	4847	HC	ASP	A	330	61.398	95.435	130.944	0.00	0.00	H
ATOM	4848	N	THR	A	331	58.472	93.325	132.658	0.00	0.00	N
ATOM	4849	CA	THR	A	331	57.050	93.555	132.656	0.00	0.00	C
ATOM	4850	C	THR	A	331	56.594	93.939	134.029	0.00	0.00	C
ATOM	4851	O	THR	A	331	56.939	93.170	134.963	0.00	0.00	O
ATOM	4852	CB	THR	A	331	56.309	92.282	132.143	0.00	0.00	C
ATOM	4853	CG2	THR	A	331	54.794	92.501	131.914	0.00	0.00	C
ATOM	4854	OG1	THR	A	331	56.870	91.850	130.900	0.00	0.00	O
ATOM	4855	HN	THR	A	331	58.754	92.426	132.841	0.00	0.00	H
ATOM	4856	HCA	THR	A	331	56.829	94.349	131.940	0.00	0.00	H
ATOM	4857	HC	THR	A	331	56.442	91.468	132.865	0.00	0.00	H
ATOM	4858	HCG2	THR	A	331	54.297	92.753	132.852	0.00	0.00	H
ATOM	4859	HCG2	THR	A	331	54.624	93.306	131.197	0.00	0.00	H
ATOM	4860	HCG2	THR	A	331	54.333	91.593	131.523	0.00	0.00	H
ATOM	4861	HOG1	THR	A	331	56.615	92.551	130.255	0.00	0.00	H
ATOM	4862	N	PRO	A	332	55.840	95.043	134.337	0.00	0.00	N
ATOM	4863	CA	PRO	A	332	55.422	95.349	135.687	0.00	0.00	C
ATOM	4864	C	PRO	A	332	54.384	94.465	136.222	0.00	0.00	C
ATOM	4865	O	PRO	A	332	53.852	93.610	135.525	0.00	0.00	O
ATOM	4866	CB	PRO	A	332	54.974	96.831	135.606	0.00	0.00	C
ATOM	4867	CG	PRO	A	332	54.474	96.974	134.165	0.00	0.00	C
ATOM	4868	CD	PRO	A	332	55.384	96.013	133.384	0.00	0.00	C
ATOM	4869	HCA	PRO	A	332	56.288	95.290	136.351	0.00	0.00	H
ATOM	4870	HC	PRO	A	332	54.196	97.098	136.328	0.00	0.00	H
ATOM	4871	HC	PRO	A	332	55.834	97.491	135.763	0.00	0.00	H
ATOM	4872	HCD	PRO	A	332	54.819	95.552	132.569	0.00	0.00	H
ATOM	4873	HCD	PRO	A	332	56.239	96.559	132.972	0.00	0.00	H
ATOM	4874	HCG	PRO	A	332	53.430	96.651	134.097	0.00	0.00	H
ATOM	4875	HCG	PRO	A	332	54.556	98.004	133.805	0.00	0.00	H
ATOM	4876	N	ALA	A	333	54.021	94.611	137.483	0.00	0.00	N
ATOM	4877	CA	ALA	A	333	52.977	93.901	138.171	0.00	0.00	C
ATOM	4878	C	ALA	A	333	51.643	94.099	137.537	0.00	0.00	C

ATOM	4879	O	ALA	A	333	51.298	95.274	137.268	0.00	0.00	O
ATOM	4880	CB	ALA	A	333	52.988	94.413	139.632	0.00	0.00	C
ATOM	4881	HN	ALA	A	333	54.495	95.287	137.987	0.00	0.00	H
ATOM	4882	HCA	ALA	A	333	53.223	92.836	138.172	0.00	0.00	H
ATOM	4883	HCb	ALA	A	333	53.951	94.203	140.096	0.00	0.00	H
ATOM	4884	HCb	ALA	A	333	52.810	95.490	139.671	0.00	0.00	H
ATOM	4885	HCb	ALA	A	333	52.215	93.918	140.218	0.00	0.00	H
ATOM	4886	N	CYS	A	334	50.814	93.063	137.248	0.00	0.00	N
ATOM	4887	CA	CYS	A	334	49.646	93.147	136.405	0.00	0.00	C
ATOM	4888	C	CYS	A	334	48.356	92.869	137.102	0.00	0.00	C
ATOM	4889	O	CYS	A	334	48.253	91.893	137.878	0.00	0.00	O
ATOM	4890	CB	CYS	A	334	49.890	92.145	135.242	0.00	0.00	C
ATOM	4891	SG	CYS	A	334	48.595	92.161	133.980	0.00	0.00	S
ATOM	4892	HN	CYS	A	334	51.044	92.179	137.578	0.00	0.00	H
ATOM	4893	HCA	CYS	A	334	49.573	94.138	135.945	0.00	0.00	H
ATOM	4894	HCb	CYS	A	334	50.830	92.391	134.740	0.00	0.00	H
ATOM	4895	HCb	CYS	A	334	49.978	91.131	135.634	0.00	0.00	H
ATOM	4896	HSG	CYS	A	334	48.744	93.494	133.753	0.00	0.00	H
ATOM	4897	N	VAL	A	335	47.264	93.611	136.799	0.00	0.00	N
ATOM	4898	CA	VAL	A	335	45.883	93.239	136.987	0.00	0.00	C
ATOM	4899	C	VAL	A	335	45.322	92.941	135.648	0.00	0.00	C
ATOM	4900	O	VAL	A	335	45.510	93.772	134.725	0.00	0.00	O
ATOM	4901	CB	VAL	A	335	45.014	94.361	137.653	0.00	0.00	C
ATOM	4902	CG1	VAL	A	335	43.517	93.965	137.796	0.00	0.00	C
ATOM	4903	CG2	VAL	A	335	45.548	94.736	139.048	0.00	0.00	C
ATOM	4904	HN	VAL	A	335	47.423	94.433	136.342	0.00	0.00	H
ATOM	4905	HCA	VAL	A	335	45.813	92.346	137.610	0.00	0.00	H
ATOM	4906	HCb	VAL	A	335	45.068	95.263	137.031	0.00	0.00	H
ATOM	4907	HCG1	VAL	A	335	43.059	93.832	136.819	0.00	0.00	H
ATOM	4908	HCG1	VAL	A	335	43.423	93.033	138.354	0.00	0.00	H
ATOM	4909	HCG1	VAL	A	335	42.952	94.740	138.309	0.00	0.00	H
ATOM	4910	HCG2	VAL	A	335	46.589	94.994	138.939	0.00	0.00	H
ATOM	4911	HCG2	VAL	A	335	45.021	95.603	139.444	0.00	0.00	H
ATOM	4912	HCG2	VAL	A	335	45.452	93.903	139.749	0.00	0.00	H
ATOM	4913	N	VAL	A	336	44.508	91.873	135.480	0.00	0.00	N
ATOM	4914	CA	VAL	A	336	43.693	91.654	134.310	0.00	0.00	C
ATOM	4915	C	VAL	A	336	42.321	92.147	134.604	0.00	0.00	C
ATOM	4916	O	VAL	A	336	41.716	91.712	135.613	0.00	0.00	O
ATOM	4917	CB	VAL	A	336	43.762	90.199	133.749	0.00	0.00	C
ATOM	4918	CG1	VAL	A	336	45.204	89.873	133.270	0.00	0.00	C
ATOM	4919	CG2	VAL	A	336	43.237	89.107	134.716	0.00	0.00	C
ATOM	4920	HN	VAL	A	336	44.400	91.299	136.245	0.00	0.00	H
ATOM	4921	HCA	VAL	A	336	44.069	92.272	133.492	0.00	0.00	H
ATOM	4922	HCb	VAL	A	336	43.122	90.164	132.859	0.00	0.00	H
ATOM	4923	HCG1	VAL	A	336	45.900	89.848	134.109	0.00	0.00	H
ATOM	4924	HCG1	VAL	A	336	45.223	88.909	132.768	0.00	0.00	H
ATOM	4925	HCG1	VAL	A	336	45.553	90.622	132.558	0.00	0.00	H
ATOM	4926	HCG2	VAL	A	336	42.189	89.277	134.959	0.00	0.00	H
ATOM	4927	HCG2	VAL	A	336	43.306	88.130	134.241	0.00	0.00	H
ATOM	4928	HCG2	VAL	A	336	43.813	89.090	135.640	0.00	0.00	H
ATOM	4929	N	SER	A	337	41.771	93.123	133.840	0.00	0.00	N
ATOM	4930	CA	SER	A	337	40.515	93.786	134.102	0.00	0.00	C
ATOM	4931	C	SER	A	337	39.631	93.913	132.919	0.00	0.00	C
ATOM	4932	O	SER	A	337	40.129	93.759	131.781	0.00	0.00	O
ATOM	4933	CB	SER	A	337	40.766	95.176	134.730	0.00	0.00	C
ATOM	4934	OG	SER	A	337	41.228	96.192	133.850	0.00	0.00	O
ATOM	4935	HN	SER	A	337	42.282	93.385	133.070	0.00	0.00	H
ATOM	4936	HCA	SER	A	337	39.949	93.207	134.834	0.00	0.00	H
ATOM	4937	HCb	SER	A	337	39.820	95.540	135.097	0.00	0.00	H
ATOM	4938	HCb	SER	A	337	41.446	95.100	135.580	0.00	0.00	H
ATOM	4939	HOG	SER	A	337	40.968	96.990	134.346	0.00	0.00	H
ATOM	4940	N	LEU	A	338	38.318	94.238	133.059	0.00	0.00	N
ATOM	4941	CA	LEU	A	338	37.394	94.462	131.978	0.00	0.00	C
ATOM	4942	C	LEU	A	338	37.144	95.921	131.855	0.00	0.00	C
ATOM	4943	O	LEU	A	338	36.665	96.556	132.828	0.00	0.00	O
ATOM	4944	CB	LEU	A	338	36.071	93.673	132.186	0.00	0.00	C
ATOM	4945	CG	LEU	A	338	35.119	93.684	130.934	0.00	0.00	C
ATOM	4946	CD1	LEU	A	338	35.424	92.504	129.970	0.00	0.00	C
ATOM	4947	CD2	LEU	A	338	33.621	93.703	131.339	0.00	0.00	C
ATOM	4948	HN	LEU	A	338	37.973	94.371	133.945	0.00	0.00	H
ATOM	4949	HCA	LEU	A	338	37.824	94.095	131.042	0.00	0.00	H
ATOM	4950	HCb	LEU	A	338	36.335	92.644	132.431	0.00	0.00	H
ATOM	4951	HCb	LEU	A	338	35.558	94.082	133.062	0.00	0.00	H
ATOM	4952	HCD1	LEU	A	338	36.461	92.541	129.635	0.00	0.00	H
ATOM	4953	HCD1	LEU	A	338	35.255	91.547	130.461	0.00	0.00	H
ATOM	4954	HCD1	LEU	A	338	34.783	92.548	129.089	0.00	0.00	H
ATOM	4955	HCD2	LEU	A	338	33.397	94.605	131.913	0.00	0.00	H
ATOM	4956	HCD2	LEU	A	338	32.981	93.701	130.454	0.00	0.00	H
ATOM	4957	HCD2	LEU	A	338	33.366	92.839	131.948	0.00	0.00	H
ATOM	4958	HCG	LEU	A	338	35.280	94.605	130.365	0.00	0.00	H

ATOM	4959	N	SER	A	339	37.442	96.523	130.683	0.00	0.00	N
ATOM	4960	CA	SER	A	339	37.306	97.909	130.355	0.00	0.00	C
ATOM	4961	C	SER	A	339	36.430	98.054	129.166	0.00	0.00	C
ATOM	4962	O	SER	A	339	36.860	97.741	128.029	0.00	0.00	O
ATOM	4963	CB	SER	A	339	38.733	98.458	130.100	0.00	0.00	C
ATOM	4964	OG	SER	A	339	39.375	97.851	128.969	0.00	0.00	O
ATOM	4965	HN	SER	A	339	37.814	95.970	129.999	0.00	0.00	H
ATOM	4966	HCA	SER	A	339	36.868	98.472	131.186	0.00	0.00	H
ATOM	4967	HCB	SER	A	339	38.690	99.537	129.930	0.00	0.00	H
ATOM	4968	HCB	SER	A	339	39.348	98.289	130.988	0.00	0.00	H
ATOM	4969	HOG	SER	A	339	39.126	96.908	128.931	0.00	0.00	H
ATOM	4970	N	GLY	A	340	35.141	98.450	129.279	0.00	0.00	N
ATOM	4971	CA	GLY	A	340	34.240	98.609	128.175	0.00	0.00	C
ATOM	4972	C	GLY	A	340	34.181	97.415	127.313	0.00	0.00	C
ATOM	4973	O	GLY	A	340	34.552	97.494	126.119	0.00	0.00	O
ATOM	4974	HN	GLY	A	340	34.788	98.635	130.151	0.00	0.00	H
ATOM	4975	HCA	GLY	A	340	33.240	98.816	128.559	0.00	0.00	H
ATOM	4976	HCA	GLY	A	340	34.563	99.468	127.588	0.00	0.00	H
ATOM	4977	N	ASN	A	341	33.836	96.231	127.861	0.00	0.00	N
ATOM	4978	CA	ASN	A	341	33.803	94.968	127.185	0.00	0.00	C
ATOM	4979	C	ASN	A	341	35.133	94.475	126.706	0.00	0.00	C
ATOM	4980	O	ASN	A	341	35.140	93.398	126.067	0.00	0.00	O
ATOM	4981	CB	ASN	A	341	32.708	95.004	126.071	0.00	0.00	C
ATOM	4982	CG	ASN	A	341	32.175	93.702	125.628	0.00	0.00	C
ATOM	4983	ND2	ASN	A	341	31.322	93.699	124.601	0.00	0.00	N
ATOM	4984	OD1	ASN	A	341	32.467	92.609	126.169	0.00	0.00	O
ATOM	4985	HN	ASN	A	341	33.589	96.246	128.799	0.00	0.00	H
ATOM	4986	HND2	ASN	A	341	31.089	94.532	124.163	0.00	0.00	H
ATOM	4987	HND2	ASN	A	341	30.942	92.868	124.292	0.00	0.00	H
ATOM	4988	HCA	ASN	A	341	33.470	94.257	127.943	0.00	0.00	H
ATOM	4989	HCB	ASN	A	341	31.851	95.584	126.425	0.00	0.00	H
ATOM	4990	HCB	ASN	A	341	33.111	95.515	125.194	0.00	0.00	H
ATOM	4991	N	GLN	A	342	36.322	95.095	126.937	0.00	0.00	N
ATOM	4992	CA	GLN	A	342	37.618	94.607	126.532	0.00	0.00	C
ATOM	4993	C	GLN	A	342	38.393	94.168	127.691	0.00	0.00	C
ATOM	4994	O	GLN	A	342	38.643	94.964	128.595	0.00	0.00	O
ATOM	4995	CB	GLN	A	342	38.390	95.715	125.763	0.00	0.00	C
ATOM	4996	CG	GLN	A	342	37.698	96.180	124.450	0.00	0.00	C
ATOM	4997	CD	GLN	A	342	38.211	97.484	124.002	0.00	0.00	C
ATOM	4998	NE2	GLN	A	342	38.007	98.568	124.760	0.00	0.00	N
ATOM	4999	OE1	GLN	A	342	38.835	97.614	122.925	0.00	0.00	O
ATOM	5000	HN	GLN	A	342	36.339	95.951	127.371	0.00	0.00	H
ATOM	5001	HNE2	GLN	A	342	37.549	98.472	125.608	0.00	0.00	H
ATOM	5002	HNE2	GLN	A	342	38.330	99.430	124.464	0.00	0.00	H
ATOM	5003	HCA	GLN	A	342	37.519	93.769	125.832	0.00	0.00	H
ATOM	5004	HCB	GLN	A	342	38.529	96.566	126.435	0.00	0.00	H
ATOM	5005	HCB	GLN	A	342	39.390	95.348	125.504	0.00	0.00	H
ATOM	5006	HCG	GLN	A	342	37.855	95.428	123.672	0.00	0.00	H
ATOM	5007	HCG	GLN	A	342	36.620	96.286	124.592	0.00	0.00	H
ATOM	5008	N	ALA	A	343	38.856	92.928	127.715	0.00	0.00	N
ATOM	5009	CA	ALA	A	343	39.789	92.378	128.654	0.00	0.00	C
ATOM	5010	C	ALA	A	343	41.146	92.959	128.438	0.00	0.00	C
ATOM	5011	O	ALA	A	343	41.717	92.787	127.334	0.00	0.00	O
ATOM	5012	CB	ALA	A	343	39.784	90.835	128.522	0.00	0.00	C
ATOM	5013	HN	ALA	A	343	38.583	92.351	126.988	0.00	0.00	H
ATOM	5014	HCA	ALA	A	343	39.440	92.607	129.663	0.00	0.00	H
ATOM	5015	HCB	ALA	A	343	38.783	90.442	128.713	0.00	0.00	H
ATOM	5016	HCB	ALA	A	343	40.096	90.528	127.520	0.00	0.00	H
ATOM	5017	HCB	ALA	A	343	40.469	90.392	129.249	0.00	0.00	H
ATOM	5018	N	VAL	A	344	41.720	93.715	129.400	0.00	0.00	N
ATOM	5019	CA	VAL	A	344	42.965	94.441	129.305	0.00	0.00	C
ATOM	5020	C	VAL	A	344	43.870	94.186	130.458	0.00	0.00	C
ATOM	5021	O	VAL	A	344	43.440	93.662	131.513	0.00	0.00	O
ATOM	5022	CB	VAL	A	344	42.704	95.979	129.141	0.00	0.00	C
ATOM	5023	CG1	VAL	A	344	42.021	96.317	127.788	0.00	0.00	C
ATOM	5024	CG2	VAL	A	344	41.909	96.584	130.332	0.00	0.00	C
ATOM	5025	HN	VAL	A	344	41.225	93.781	130.215	0.00	0.00	H
ATOM	5026	HCA	VAL	A	344	43.515	94.099	128.423	0.00	0.00	H
ATOM	5027	HCB	VAL	A	344	43.672	96.492	129.118	0.00	0.00	H
ATOM	5028	HCG1	VAL	A	344	42.618	95.940	126.954	0.00	0.00	H
ATOM	5029	HCG1	VAL	A	344	41.030	95.870	127.730	0.00	0.00	H
ATOM	5030	HCG1	VAL	A	344	41.920	97.398	127.670	0.00	0.00	H
ATOM	5031	HCG2	VAL	A	344	40.909	96.152	130.389	0.00	0.00	H
ATOM	5032	HCG2	VAL	A	344	42.416	96.387	131.275	0.00	0.00	H
ATOM	5033	HCG2	VAL	A	344	41.822	97.666	130.220	0.00	0.00	H
ATOM	5034	N	ARG	A	345	45.158	94.589	130.348	0.00	0.00	N
ATOM	5035	CA	ARG	A	345	46.213	94.440	131.308	0.00	0.00	C
ATOM	5036	C	ARG	A	345	46.534	95.782	131.874	0.00	0.00	C
ATOM	5037	O	ARG	A	345	46.948	96.672	131.093	0.00	0.00	O
ATOM	5038	CB	ARG	A	345	47.458	93.829	130.593	0.00	0.00	C



ATOM	5039	CG	ARG	A	345	47.211	92.453	129.912	0.00	0.00	C
ATOM	5040	CD	ARG	A	345	48.456	91.957	129.138	0.00	0.00	C
ATOM	5041	NE	ARG	A	345	48.129	90.794	128.391	0.00	0.00	N
ATOM	5042	CZ	ARG	A	345	48.926	90.121	127.567	0.00	0.00	C
ATOM	5043	NH1	ARG	A	345	50.172	90.431	127.254	0.00	0.00	N
ATOM	5044	NH2	ARG	A	345	48.369	89.053	127.035	0.00	0.00	N
ATOM	5045	HN	ARG	A	345	45.395	95.032	129.520	0.00	0.00	H
ATOM	5046	HNE	ARG	A	345	47.249	90.411	128.436	0.00	0.00	H
ATOM	5047	HNH1	ARG	A	345	50.604	91.192	127.657	0.00	0.00	H
ATOM	5048	HNH1	ARG	A	345	50.618	89.901	126.596	0.00	0.00	H
ATOM	5049	HNH2	ARG	A	345	47.444	88.914	127.260	0.00	0.00	H
ATOM	5050	HNH2	ARG	A	345	48.887	88.463	126.489	0.00	0.00	H
ATOM	5051	HCA	ARG	A	345	45.916	93.764	132.114	0.00	0.00	H
ATOM	5052	HC	ARG	A	345	47.805	94.530	129.828	0.00	0.00	H
ATOM	5053	HC	ARG	A	345	48.264	93.717	131.324	0.00	0.00	H
ATOM	5054	HCD	ARG	A	345	48.798	92.738	128.452	0.00	0.00	H
ATOM	5055	HCD	ARG	A	345	49.261	91.731	129.845	0.00	0.00	H
ATOM	5056	HCG	ARG	A	345	46.936	91.714	130.669	0.00	0.00	H
ATOM	5057	HCG	ARG	A	345	46.379	92.540	129.207	0.00	0.00	H
ATOM	5058	N	LEU	A	346	46.386	96.049	133.194	0.00	0.00	N
ATOM	5059	CA	LEU	A	346	46.651	97.315	133.845	0.00	0.00	C
ATOM	5060	C	LEU	A	346	47.697	97.209	134.911	0.00	0.00	C
ATOM	5061	O	LEU	A	346	47.763	96.122	135.534	0.00	0.00	O
ATOM	5062	CB	LEU	A	346	45.347	97.896	134.464	0.00	0.00	C
ATOM	5063	CG	LEU	A	346	44.177	98.212	133.482	0.00	0.00	C
ATOM	5064	CD1	LEU	A	346	42.999	98.835	134.277	0.00	0.00	C
ATOM	5065	CD2	LEU	A	346	44.562	99.159	132.313	0.00	0.00	C
ATOM	5066	HN	LEU	A	346	46.079	95.322	133.736	0.00	0.00	H
ATOM	5067	HCA	LEU	A	346	47.012	98.033	133.110	0.00	0.00	H
ATOM	5068	HC	LEU	A	346	44.985	97.184	135.212	0.00	0.00	H
ATOM	5069	HC	LEU	A	346	45.595	98.821	134.991	0.00	0.00	H
ATOM	5070	HCD1	LEU	A	346	42.736	98.196	135.121	0.00	0.00	H
ATOM	5071	HCD1	LEU	A	346	43.267	99.821	134.664	0.00	0.00	H
ATOM	5072	HCD1	LEU	A	346	42.121	98.941	133.637	0.00	0.00	H
ATOM	5073	HCD2	LEU	A	346	45.264	98.674	131.636	0.00	0.00	H
ATOM	5074	HCD2	LEU	A	346	43.678	99.422	131.727	0.00	0.00	H
ATOM	5075	HCD2	LEU	A	346	45.015	100.077	132.693	0.00	0.00	H
ATOM	5076	HCG	LEU	A	346	43.831	97.265	133.056	0.00	0.00	H
ATOM	5077	N	PRO	A	347	48.561	98.218	135.261	0.00	0.00	N
ATOM	5078	CA	PRO	A	347	49.550	98.086	136.305	0.00	0.00	C
ATOM	5079	C	PRO	A	347	49.021	98.071	137.683	0.00	0.00	C
ATOM	5080	O	PRO	A	347	48.300	98.968	138.118	0.00	0.00	O
ATOM	5081	CB	PRO	A	347	50.551	99.226	136.018	0.00	0.00	C
ATOM	5082	CG	PRO	A	347	49.704	100.302	135.331	0.00	0.00	C
ATOM	5083	CD	PRO	A	347	48.634	99.486	134.591	0.00	0.00	C
ATOM	5084	HCA	PRO	A	347	50.096	97.157	136.116	0.00	0.00	H
ATOM	5085	HC	PRO	A	347	51.037	99.593	136.921	0.00	0.00	H
ATOM	5086	HC	PRO	A	347	51.329	98.884	135.326	0.00	0.00	H
ATOM	5087	HCD	PRO	A	347	47.678	100.016	134.610	0.00	0.00	H
ATOM	5088	HCD	PRO	A	347	48.947	99.341	133.553	0.00	0.00	H
ATOM	5089	HCG	PRO	A	347	49.235	100.947	136.073	0.00	0.00	H
ATOM	5090	HCG	PRO	A	347	50.299	100.916	134.649	0.00	0.00	H
ATOM	5091	N	LEU	A	348	49.365	97.057	138.461	0.00	0.00	N
ATOM	5092	CA	LEU	A	348	48.879	96.734	139.782	0.00	0.00	C
ATOM	5093	C	LEU	A	348	49.096	97.815	140.784	0.00	0.00	C
ATOM	5094	O	LEU	A	348	48.133	98.202	141.490	0.00	0.00	O
ATOM	5095	CB	LEU	A	348	49.513	95.368	140.232	0.00	0.00	C
ATOM	5096	CG	LEU	A	348	48.643	94.336	141.022	0.00	0.00	C
ATOM	5097	CD1	LEU	A	348	49.517	93.169	141.553	0.00	0.00	C
ATOM	5098	CD2	LEU	A	348	47.822	94.974	142.162	0.00	0.00	C
ATOM	5099	HN	LEU	A	348	49.995	96.449	138.075	0.00	0.00	H
ATOM	5100	HCA	LEU	A	348	47.806	96.610	139.685	0.00	0.00	H
ATOM	5101	HC	LEU	A	348	49.826	94.822	139.347	0.00	0.00	H
ATOM	5102	HC	LEU	A	348	50.420	95.579	140.804	0.00	0.00	H
ATOM	5103	HCD1	LEU	A	348	50.278	93.538	142.240	0.00	0.00	H
ATOM	5104	HCD1	LEU	A	348	48.905	92.430	142.074	0.00	0.00	H
ATOM	5105	HCD1	LEU	A	348	50.011	92.664	140.721	0.00	0.00	H
ATOM	5106	HCD2	LEU	A	348	46.999	95.555	141.746	0.00	0.00	H
ATOM	5107	HCD2	LEU	A	348	47.395	94.213	142.818	0.00	0.00	H
ATOM	5108	HCD2	LEU	A	348	48.457	95.634	142.750	0.00	0.00	H
ATOM	5109	HCG	LEU	A	348	47.939	93.869	140.332	0.00	0.00	H
ATOM	5110	N	MET	A	349	50.314	98.389	140.910	0.00	0.00	N
ATOM	5111	CA	MET	A	349	50.683	99.419	141.844	0.00	0.00	C
ATOM	5112	C	MET	A	349	49.775	100.599	141.747	0.00	0.00	C
ATOM	5113	O	MET	A	349	49.074	100.929	142.733	0.00	0.00	O
ATOM	5114	CB	MET	A	349	52.176	99.801	141.609	0.00	0.00	C
ATOM	5115	CG	MET	A	349	53.174	98.648	141.910	0.00	0.00	C
ATOM	5116	SD	MET	A	349	54.873	99.045	141.422	0.00	0.00	S
ATOM	5117	CE	MET	A	349	54.775	98.618	139.667	0.00	0.00	C
ATOM	5118	HN	MET	A	349	51.007	98.054	140.322	0.00	0.00	H

ATOM	5119	HCA	MET	A	349	50.598	99.000	142.853	0.00	0.00		H
ATOM	5120	HCB	MET	A	349	52.299	100.121	140.574	0.00	0.00		H
ATOM	5121	HCB	MET	A	349	52.435	100.649	142.249	0.00	0.00		H
ATOM	5122	HCE	MET	A	349	54.514	97.566	139.549	0.00	0.00		H
ATOM	5123	HCE	MET	A	349	54.033	99.236	139.160	0.00	0.00		H
ATOM	5124	HCE	MET	A	349	55.747	98.793	139.207	0.00	0.00		H
ATOM	5125	HCG	MET	A	349	53.179	98.465	142.987	0.00	0.00		H
ATOM	5126	HCG	MET	A	349	52.868	97.722	141.423	0.00	0.00		H
ATOM	5127	N	GLU	A	350	49.657	101.287	140.589	0.00	0.00		N
ATOM	5128	CA	GLU	A	350	48.703	102.303	140.269	0.00	0.00		C
ATOM	5129	C	GLU	A	350	47.295	101.910	140.566	0.00	0.00		C
ATOM	5130	O	GLU	A	350	46.616	102.680	141.288	0.00	0.00		O
ATOM	5131	CB	GLU	A	350	48.868	102.687	138.768	0.00	0.00		C
ATOM	5132	CG	GLU	A	350	50.187	103.439	138.401	0.00	0.00		C
ATOM	5133	CD	GLU	A	350	51.450	102.674	138.342	0.00	0.00		C
ATOM	5134	OE1	GLU	A	350	51.526	101.433	138.471	0.00	0.00		O
ATOM	5135	OE2	GLU	A	350	52.523	103.280	138.139	0.00	0.00		O
ATOM	5136	HN	GLU	A	350	50.305	101.139	139.902	0.00	0.00		H
ATOM	5137	HCA	GLU	A	350	48.952	103.186	140.865	0.00	0.00		H
ATOM	5138	HCB	GLU	A	350	48.773	101.789	138.156	0.00	0.00		H
ATOM	5139	HCB	GLU	A	350	48.039	103.349	138.492	0.00	0.00		H
ATOM	5140	HCG	GLU	A	350	50.056	103.882	137.410	0.00	0.00		H
ATOM	5141	HCG	GLU	A	350	50.327	104.261	139.106	0.00	0.00		H
ATOM	5142	N	CYS	A	351	46.734	100.760	140.104	0.00	0.00		N
ATOM	5143	CA	CYS	A	351	45.385	100.349	140.437	0.00	0.00		C
ATOM	5144	C	CYS	A	351	45.127	100.301	141.913	0.00	0.00		C
ATOM	5145	O	CYS	A	351	44.139	100.912	142.393	0.00	0.00		O
ATOM	5146	CB	CYS	A	351	45.040	98.991	139.775	0.00	0.00		C
ATOM	5147	SG	CYS	A	351	45.027	99.066	137.972	0.00	0.00		S
ATOM	5148	HN	CYS	A	351	47.256	100.196	139.513	0.00	0.00		H
ATOM	5149	HCA	CYS	A	351	44.702	101.091	140.008	0.00	0.00		H
ATOM	5150	HCB	CYS	A	351	45.749	98.223	140.087	0.00	0.00		H
ATOM	5151	HCB	CYS	A	351	44.037	98.687	140.079	0.00	0.00		H
ATOM	5152	HSG	CYS	A	351	44.042	100.004	137.954	0.00	0.00		H
ATOM	5153	N	VAL	A	352	45.985	99.661	142.744	0.00	0.00		N
ATOM	5154	CA	VAL	A	352	45.919	99.653	144.187	0.00	0.00		C
ATOM	5155	C	VAL	A	352	45.974	101.034	144.754	0.00	0.00		C
ATOM	5156	O	VAL	A	352	45.112	101.395	145.592	0.00	0.00		O
ATOM	5157	CB	VAL	A	352	47.018	98.690	144.763	0.00	0.00		C
ATOM	5158	CG1	VAL	A	352	47.317	98.887	146.274	0.00	0.00		C
ATOM	5159	CG2	VAL	A	352	46.618	97.205	144.537	0.00	0.00		C
ATOM	5160	HN	VAL	A	352	46.710	99.191	142.331	0.00	0.00		H
ATOM	5161	HCA	VAL	A	352	44.948	99.230	144.457	0.00	0.00		H
ATOM	5162	HCB	VAL	A	352	47.957	98.872	144.227	0.00	0.00		H
ATOM	5163	HCG1	VAL	A	352	46.395	98.785	146.846	0.00	0.00		H
ATOM	5164	HCG1	VAL	A	352	48.039	98.147	146.625	0.00	0.00		H
ATOM	5165	HCG1	VAL	A	352	47.743	99.874	146.460	0.00	0.00		H
ATOM	5166	HCG2	VAL	A	352	45.762	96.930	145.158	0.00	0.00		H
ATOM	5167	HCG2	VAL	A	352	46.346	97.043	143.495	0.00	0.00		H
ATOM	5168	HCG2	VAL	A	352	47.450	96.546	144.786	0.00	0.00		H
ATOM	5169	N	GLN	A	353	46.927	101.918	144.378	0.00	0.00		N
ATOM	5170	CA	GLN	A	353	46.994	103.294	144.803	0.00	0.00		C
ATOM	5171	C	GLN	A	353	45.725	104.003	144.592	0.00	0.00		C
ATOM	5172	O	GLN	A	353	45.175	104.530	145.552	0.00	0.00		O
ATOM	5173	CB	GLN	A	353	48.203	103.974	144.097	0.00	0.00		C
ATOM	5174	CG	GLN	A	353	48.541	105.390	144.640	0.00	0.00		C
ATOM	5175	CD	GLN	A	353	49.741	105.963	144.001	0.00	0.00		C
ATOM	5176	NE2	GLN	A	353	50.850	106.234	144.696	0.00	0.00		N
ATOM	5177	OE1	GLN	A	353	49.762	106.212	142.777	0.00	0.00		O
ATOM	5178	HN	GLN	A	353	47.615	101.593	143.797	0.00	0.00		H
ATOM	5179	HNE2	GLN	A	353	50.886	106.056	145.646	0.00	0.00		H
ATOM	5180	HNE2	GLN	A	353	51.617	106.608	144.239	0.00	0.00		H
ATOM	5181	HCA	GLN	A	353	47.216	103.276	145.876	0.00	0.00		H
ATOM	5182	HCB	GLN	A	353	49.085	103.339	144.232	0.00	0.00		H
ATOM	5183	HCB	GLN	A	353	48.006	104.043	143.026	0.00	0.00		H
ATOM	5184	HCG	GLN	A	353	47.707	106.069	144.454	0.00	0.00		H
ATOM	5185	HCG	GLN	A	353	48.693	105.335	145.721	0.00	0.00		H
ATOM	5186	N	VAL	A	354	45.131	103.998	143.409	0.00	0.00		N
ATOM	5187	CA	VAL	A	354	43.842	104.579	143.103	0.00	0.00		C
ATOM	5188	C	VAL	A	354	42.760	104.016	143.973	0.00	0.00		C
ATOM	5189	O	VAL	A	354	42.047	104.808	144.643	0.00	0.00		O
ATOM	5190	CB	VAL	A	354	43.541	104.446	141.567	0.00	0.00		C
ATOM	5191	CG1	VAL	A	354	42.099	104.888	141.177	0.00	0.00		C
ATOM	5192	CG2	VAL	A	354	44.550	105.266	140.708	0.00	0.00		C
ATOM	5193	HN	VAL	A	354	45.603	103.557	142.700	0.00	0.00		H
ATOM	5194	HCA	VAL	A	354	43.912	105.651	143.316	0.00	0.00		H
ATOM	5195	HCB	VAL	A	354	43.645	103.391	141.289	0.00	0.00		H
ATOM	5196	HCG1	VAL	A	354	41.922	105.925	141.469	0.00	0.00		H
ATOM	5197	HCG1	VAL	A	354	41.947	104.797	140.099	0.00	0.00		H
ATOM	5198	HCG1	VAL	A	354	41.355	104.259	141.667	0.00	0.00		H

ATOM	5199	HCG2	VAL	A	354	45.580	105.013	140.956	0.00	0.00	H
ATOM	5200	HCG2	VAL	A	354	44.402	105.059	139.646	0.00	0.00	H
ATOM	5201	HCG2	VAL	A	354	44.417	106.337	140.875	0.00	0.00	H
ATOM	5202	N	THR	A	355	42.543	102.677	144.074	0.00	0.00	N
ATOM	5203	CA	THR	A	355	41.527	102.080	144.917	0.00	0.00	C
ATOM	5204	C	THR	A	355	41.630	102.528	146.340	0.00	0.00	C
ATOM	5205	O	THR	A	355	40.601	102.927	146.936	0.00	0.00	O
ATOM	5206	CB	THR	A	355	41.412	100.527	144.731	0.00	0.00	C
ATOM	5207	CG2	THR	A	355	42.169	99.649	145.755	0.00	0.00	C
ATOM	5208	OG1	THR	A	355	40.035	100.137	144.756	0.00	0.00	O
ATOM	5209	HN	THR	A	355	43.090	102.098	143.536	0.00	0.00	H
ATOM	5210	HCA	THR	A	355	40.584	102.482	144.536	0.00	0.00	H
ATOM	5211	HCB	THR	A	355	41.778	100.265	143.733	0.00	0.00	H
ATOM	5212	HCG2	THR	A	355	41.706	99.721	146.741	0.00	0.00	H
ATOM	5213	HCG2	THR	A	355	42.153	98.606	145.436	0.00	0.00	H
ATOM	5214	HCG2	THR	A	355	43.200	99.954	145.842	0.00	0.00	H
ATOM	5215	HOG1	THR	A	355	39.985	99.342	145.331	0.00	0.00	H
ATOM	5216	N	LYS	A	356	42.832	102.591	146.967	0.00	0.00	N
ATOM	5217	CA	LYS	A	356	43.064	103.155	148.276	0.00	0.00	C
ATOM	5218	C	LYS	A	356	42.784	104.624	148.358	0.00	0.00	C
ATOM	5219	O	LYS	A	356	42.139	105.061	149.346	0.00	0.00	O
ATOM	5220	CB	LYS	A	356	44.512	102.820	148.741	0.00	0.00	C
ATOM	5221	CG	LYS	A	356	44.708	101.315	149.083	0.00	0.00	C
ATOM	5222	CD	LYS	A	356	46.168	100.978	149.486	0.00	0.00	C
ATOM	5223	CE	LYS	A	356	46.343	99.500	149.913	0.00	0.00	C
ATOM	5224	NZ	LYS	A	356	47.762	99.176	150.097	0.00	0.00	N
ATOM	5225	HN	LYS	A	356	43.588	102.238	146.492	0.00	0.00	H
ATOM	5226	HNZ	LYS	A	356	48.338	99.823	149.558	0.00	0.00	H
ATOM	5227	HNZ	LYS	A	356	48.013	99.245	151.083	0.00	0.00	H
ATOM	5228	HNZ	LYS	A	356	47.946	98.244	149.766	0.00	0.00	H
ATOM	5229	HCA	LYS	A	356	42.380	102.658	148.973	0.00	0.00	H
ATOM	5230	HCB	LYS	A	356	45.221	103.116	147.962	0.00	0.00	H
ATOM	5231	HCB	LYS	A	356	44.746	103.401	149.639	0.00	0.00	H
ATOM	5232	HCD	LYS	A	356	46.819	101.187	148.633	0.00	0.00	H
ATOM	5233	HCD	LYS	A	356	46.477	101.621	150.315	0.00	0.00	H
ATOM	5234	HCE	LYS	A	356	45.810	99.310	150.848	0.00	0.00	H
ATOM	5235	HCE	LYS	A	356	45.929	98.839	149.151	0.00	0.00	H
ATOM	5236	HCG	LYS	A	356	44.040	101.049	149.909	0.00	0.00	H
ATOM	5237	HCG	LYS	A	356	44.431	100.706	148.218	0.00	0.00	H
ATOM	5238	N	ASP	A	357	43.190	105.505	147.408	0.00	0.00	N
ATOM	5239	CA	ASP	A	357	42.816	106.901	147.368	0.00	0.00	C
ATOM	5240	C	ASP	A	357	41.343	107.114	147.507	0.00	0.00	C
ATOM	5241	O	ASP	A	357	40.941	108.019	148.278	0.00	0.00	O
ATOM	5242	CB	ASP	A	357	43.340	107.634	146.099	0.00	0.00	C
ATOM	5243	CG	ASP	A	357	44.805	107.707	145.992	0.00	0.00	C
ATOM	5244	OD1	ASP	A	357	45.496	108.152	146.933	0.00	0.00	O
ATOM	5245	OD2	ASP	A	357	45.390	107.401	144.932	0.00	0.00	O
ATOM	5246	HN	ASP	A	357	43.796	105.180	146.739	0.00	0.00	H
ATOM	5247	HCA	ASP	A	357	43.299	107.372	148.231	0.00	0.00	H
ATOM	5248	HCB	ASP	A	357	42.932	107.168	145.202	0.00	0.00	H
ATOM	5249	HCB	ASP	A	357	42.990	108.669	146.116	0.00	0.00	H
ATOM	5250	N	VAL	A	358	40.446	106.324	146.861	0.00	0.00	N
ATOM	5251	CA	VAL	A	358	39.005	106.403	147.048	0.00	0.00	C
ATOM	5252	C	VAL	A	358	38.569	106.226	148.472	0.00	0.00	C
ATOM	5253	O	VAL	A	358	37.504	106.774	148.845	0.00	0.00	O
ATOM	5254	CB	VAL	A	358	38.188	105.453	146.095	0.00	0.00	C
ATOM	5255	CG1	VAL	A	358	36.677	105.838	146.015	0.00	0.00	C
ATOM	5256	CG2	VAL	A	358	38.778	105.403	144.657	0.00	0.00	C
ATOM	5257	HN	VAL	A	358	40.822	105.702	146.221	0.00	0.00	H
ATOM	5258	HCA	VAL	A	358	38.742	107.428	146.768	0.00	0.00	H
ATOM	5259	HCB	VAL	A	358	38.238	104.435	146.499	0.00	0.00	H
ATOM	5260	HCG1	VAL	A	358	36.558	106.870	145.681	0.00	0.00	H
ATOM	5261	HCG1	VAL	A	358	36.146	105.190	145.316	0.00	0.00	H
ATOM	5262	HCG1	VAL	A	358	36.188	105.724	146.982	0.00	0.00	H
ATOM	5263	HCG2	VAL	A	358	39.562	104.654	144.610	0.00	0.00	H
ATOM	5264	HCG2	VAL	A	358	38.031	105.136	143.909	0.00	0.00	H
ATOM	5265	HCG2	VAL	A	358	39.208	106.363	144.383	0.00	0.00	H
ATOM	5266	N	THR	A	359	39.311	105.561	149.391	0.00	0.00	N
ATOM	5267	CA	THR	A	359	38.979	105.385	150.782	0.00	0.00	C
ATOM	5268	C	THR	A	359	39.495	106.568	151.509	0.00	0.00	C
ATOM	5269	O	THR	A	359	38.729	107.202	152.267	0.00	0.00	O
ATOM	5270	CB	THR	A	359	39.560	104.054	151.347	0.00	0.00	C
ATOM	5271	CG2	THR	A	359	39.180	103.781	152.822	0.00	0.00	C
ATOM	5272	OG1	THR	A	359	39.061	102.963	150.577	0.00	0.00	O
ATOM	5273	HN	THR	A	359	40.193	105.276	149.154	0.00	0.00	H
ATOM	5274	HCA	THR	A	359	37.892	105.331	150.901	0.00	0.00	H
ATOM	5275	HCB	THR	A	359	40.651	104.059	151.264	0.00	0.00	H
ATOM	5276	HCG2	THR	A	359	39.591	104.553	153.475	0.00	0.00	H
ATOM	5277	HCG2	THR	A	359	38.095	103.762	152.941	0.00	0.00	H
ATOM	5278	HCG2	THR	A	359	39.582	102.818	153.143	0.00	0.00	H



ATOM	5359	O	LYS	A	365	33.808	115.821	152.180	0.00	0.00	O
ATOM	5360	CB	LYS	A	365	34.243	115.802	155.016	0.00	0.00	C
ATOM	5361	CG	LYS	A	365	34.210	115.429	156.528	0.00	0.00	C
ATOM	5362	CD	LYS	A	365	33.430	116.470	157.385	0.00	0.00	C
ATOM	5363	CE	LYS	A	365	33.710	116.348	158.904	0.00	0.00	C
ATOM	5364	NZ	LYS	A	365	32.913	117.306	159.684	0.00	0.00	N
ATOM	5365	HN	LYS	A	365	36.589	114.950	155.130	0.00	0.00	H
ATOM	5366	HNZ	LYS	A	365	31.994	116.954	159.895	0.00	0.00	H
ATOM	5367	HNZ	LYS	A	365	33.386	117.490	160.569	0.00	0.00	H
ATOM	5368	HNZ	LYS	A	365	32.828	118.184	159.173	0.00	0.00	H
ATOM	5369	HCA	LYS	A	365	34.185	113.826	154.154	0.00	0.00	H
ATOM	5370	HCB	LYS	A	365	34.827	116.720	154.894	0.00	0.00	H
ATOM	5371	HCB	LYS	A	365	33.217	116.025	154.707	0.00	0.00	H
ATOM	5372	HCD	LYS	A	365	33.710	117.480	157.072	0.00	0.00	H
ATOM	5373	HCD	LYS	A	365	32.358	116.350	157.204	0.00	0.00	H
ATOM	5374	HCE	LYS	A	365	33.503	115.337	159.258	0.00	0.00	H
ATOM	5375	HCE	LYS	A	365	34.765	116.562	159.089	0.00	0.00	H
ATOM	5376	HCG	LYS	A	365	33.741	114.448	156.652	0.00	0.00	H
ATOM	5377	HCG	LYS	A	365	35.238	115.358	156.892	0.00	0.00	H
ATOM	5378	N	ARG	A	366	35.647	114.630	151.730	0.00	0.00	N
ATOM	5379	CA	ARG	A	366	35.800	114.970	150.343	0.00	0.00	C
ATOM	5380	C	ARG	A	366	34.977	114.030	149.534	0.00	0.00	C
ATOM	5381	O	ARG	A	366	35.428	113.349	148.581	0.00	0.00	O
ATOM	5382	CB	ARG	A	366	37.314	115.033	149.978	0.00	0.00	C
ATOM	5383	CG	ARG	A	366	38.090	116.133	150.760	0.00	0.00	C
ATOM	5384	CD	ARG	A	366	39.510	116.424	150.213	0.00	0.00	C
ATOM	5385	NE	ARG	A	366	40.450	115.389	150.514	0.00	0.00	N
ATOM	5386	CZ	ARG	A	366	41.685	115.312	150.009	0.00	0.00	C
ATOM	5387	NH1	ARG	A	366	42.172	116.148	149.103	0.00	0.00	N
ATOM	5388	NH2	ARG	A	366	42.491	114.357	150.436	0.00	0.00	N
ATOM	5389	HN	ARG	A	366	36.145	113.901	152.089	0.00	0.00	H
ATOM	5390	HNE	ARG	A	366	40.216	114.710	151.162	0.00	0.00	H
ATOM	5391	HNH1	ARG	A	366	41.623	116.865	148.767	0.00	0.00	H
ATOM	5392	HNH1	ARG	A	366	43.076	116.039	148.784	0.00	0.00	H
ATOM	5393	HNH2	ARG	A	366	42.201	113.758	151.123	0.00	0.00	H
ATOM	5394	HNH2	ARG	A	366	43.380	114.277	150.072	0.00	0.00	H
ATOM	5395	HCA	ARG	A	366	35.385	115.966	150.155	0.00	0.00	H
ATOM	5396	HCB	ARG	A	366	37.781	114.061	150.159	0.00	0.00	H
ATOM	5397	HCB	ARG	A	366	37.394	115.249	148.910	0.00	0.00	H
ATOM	5398	HCD	ARG	A	366	39.445	116.585	149.132	0.00	0.00	H
ATOM	5399	HCD	ARG	A	366	39.870	117.353	150.667	0.00	0.00	H
ATOM	5400	HCG	ARG	A	366	37.523	117.066	150.701	0.00	0.00	H
ATOM	5401	HCG	ARG	A	366	38.158	115.861	151.816	0.00	0.00	H
ATOM	5402	N	PHE	A	367	33.669	113.960	149.858	0.00	0.00	N
ATOM	5403	CA	PHE	A	367	32.679	113.117	149.245	0.00	0.00	C
ATOM	5404	C	PHE	A	367	32.587	113.370	147.783	0.00	0.00	C
ATOM	5405	O	PHE	A	367	32.613	112.418	146.973	0.00	0.00	O
ATOM	5406	CB	PHE	A	367	31.311	113.275	149.970	0.00	0.00	C
ATOM	5407	CG	PHE	A	367	31.404	113.084	151.446	0.00	0.00	C
ATOM	5408	CD1	PHE	A	367	31.847	111.854	151.990	0.00	0.00	C
ATOM	5409	CD2	PHE	A	367	31.068	114.132	152.336	0.00	0.00	C
ATOM	5410	CE1	PHE	A	367	31.984	111.689	153.381	0.00	0.00	C
ATOM	5411	CE2	PHE	A	367	31.187	113.961	153.727	0.00	0.00	C
ATOM	5412	CZ	PHE	A	367	31.647	112.740	154.252	0.00	0.00	C
ATOM	5413	HN	PHE	A	367	33.438	114.528	150.602	0.00	0.00	H
ATOM	5414	HCA	PHE	A	367	33.007	112.081	149.379	0.00	0.00	H
ATOM	5415	HCB	PHE	A	367	30.903	114.263	149.736	0.00	0.00	H
ATOM	5416	HCB	PHE	A	367	30.609	112.538	149.573	0.00	0.00	H
ATOM	5417	HCD1	PHE	A	367	32.080	111.069	151.377	0.00	0.00	H
ATOM	5418	HCD2	PHE	A	367	30.737	115.031	151.979	0.00	0.00	H
ATOM	5419	HCE1	PHE	A	367	32.332	110.806	153.758	0.00	0.00	H
ATOM	5420	HCE2	PHE	A	367	30.940	114.728	154.355	0.00	0.00	H
ATOM	5421	HCZ	PHE	A	367	31.736	112.617	155.264	0.00	0.00	H
ATOM	5422	N	ASP	A	368	32.600	114.637	147.320	0.00	0.00	N
ATOM	5423	CA	ASP	A	368	32.750	115.102	145.975	0.00	0.00	C
ATOM	5424	C	ASP	A	368	33.865	114.460	145.211	0.00	0.00	C
ATOM	5425	O	ASP	A	368	33.721	114.226	143.984	0.00	0.00	O
ATOM	5426	CB	ASP	A	368	32.985	116.647	146.056	0.00	0.00	C
ATOM	5427	CG	ASP	A	368	32.055	117.397	146.930	0.00	0.00	C
ATOM	5428	OD1	ASP	A	368	31.212	118.183	146.452	0.00	0.00	O
ATOM	5429	OD2	ASP	A	368	32.103	117.284	148.178	0.00	0.00	O
ATOM	5430	HN	ASP	A	368	32.483	115.358	147.941	0.00	0.00	H
ATOM	5431	HCA	ASP	A	368	31.806	114.918	145.452	0.00	0.00	H
ATOM	5432	HCB	ASP	A	368	33.995	116.851	146.422	0.00	0.00	H
ATOM	5433	HCB	ASP	A	368	32.919	117.063	145.049	0.00	0.00	H
ATOM	5434	N	GLU	A	369	35.019	114.113	145.832	0.00	0.00	N
ATOM	5435	CA	GLU	A	369	36.197	113.577	145.217	0.00	0.00	C
ATOM	5436	C	GLU	A	369	36.069	112.100	145.204	0.00	0.00	C
ATOM	5437	O	GLU	A	369	36.289	111.485	144.137	0.00	0.00	O
ATOM	5438	CB	GLU	A	369	37.452	114.070	145.996	0.00	0.00	C

ATOM	5439	CG	GLU	A	369	38.815	113.685	145.352	0.00	0.00		C
ATOM	5440	CD	GLU	A	369	39.054	114.298	144.035	0.00	0.00		C
ATOM	5441	OE1	GLU	A	369	39.116	115.539	143.909	0.00	0.00		O
ATOM	5442	OE2	GLU	A	369	39.209	113.598	143.012	0.00	0.00		O
ATOM	5443	HN	GLU	A	369	35.040	114.100	146.789	0.00	0.00		H
ATOM	5444	HCA	GLU	A	369	36.279	113.946	144.190	0.00	0.00		H
ATOM	5445	HCB	GLU	A	369	37.407	115.160	146.089	0.00	0.00		H
ATOM	5446	HCB	GLU	A	369	37.435	113.658	147.006	0.00	0.00		H
ATOM	5447	HCG	GLU	A	369	39.623	114.005	146.014	0.00	0.00		H
ATOM	5448	HCG	GLU	A	369	38.878	112.600	145.265	0.00	0.00		H
ATOM	5449	N	ALA	A	370	35.625	111.435	146.301	0.00	0.00		N
ATOM	5450	CA	ALA	A	370	35.263	110.038	146.314	0.00	0.00		C
ATOM	5451	C	ALA	A	370	34.323	109.689	145.200	0.00	0.00		C
ATOM	5452	O	ALA	A	370	34.599	108.742	144.423	0.00	0.00		O
ATOM	5453	CB	ALA	A	370	34.681	109.663	147.697	0.00	0.00		C
ATOM	5454	HN	ALA	A	370	35.522	111.967	147.099	0.00	0.00		H
ATOM	5455	HCA	ALA	A	370	36.184	109.460	146.185	0.00	0.00		H
ATOM	5456	HCB	ALA	A	370	35.377	109.946	148.489	0.00	0.00		H
ATOM	5457	HCB	ALA	A	370	33.730	110.166	147.873	0.00	0.00		H
ATOM	5458	HCB	ALA	A	370	34.516	108.584	147.756	0.00	0.00		H
ATOM	5459	N	MET	A	371	33.235	110.467	144.975	0.00	0.00		N
ATOM	5460	CA	MET	A	371	32.349	110.395	143.845	0.00	0.00		C
ATOM	5461	C	MET	A	371	33.066	110.506	142.544	0.00	0.00		C
ATOM	5462	O	MET	A	371	32.919	109.561	141.737	0.00	0.00		O
ATOM	5463	CB	MET	A	371	31.238	111.487	143.938	0.00	0.00		C
ATOM	5464	CG	MET	A	371	30.140	111.207	144.996	0.00	0.00		C
ATOM	5465	SD	MET	A	371	29.113	109.760	144.632	0.00	0.00		S
ATOM	5466	CE	MET	A	371	28.044	110.446	143.349	0.00	0.00		C
ATOM	5467	HN	MET	A	371	33.047	111.134	145.632	0.00	0.00		H
ATOM	5468	HCA	MET	A	371	31.866	109.413	143.884	0.00	0.00		H
ATOM	5469	HCB	MET	A	371	31.703	112.446	144.173	0.00	0.00		H
ATOM	5470	HCB	MET	A	371	30.751	111.605	142.967	0.00	0.00		H
ATOM	5471	HCE	MET	A	371	28.621	110.711	142.465	0.00	0.00		H
ATOM	5472	HCE	MET	A	371	27.310	109.690	143.070	0.00	0.00		H
ATOM	5473	HCE	MET	A	371	27.521	111.325	143.726	0.00	0.00		H
ATOM	5474	HCG	MET	A	371	30.617	111.031	145.958	0.00	0.00		H
ATOM	5475	HCG	MET	A	371	29.498	112.084	145.107	0.00	0.00		H
ATOM	5476	N	LYS	A	372	33.838	111.571	142.203	0.00	0.00		N
ATOM	5477	CA	LYS	A	372	34.579	111.687	140.959	0.00	0.00		C
ATOM	5478	C	LYS	A	372	35.514	110.556	140.674	0.00	0.00		C
ATOM	5479	O	LYS	A	372	35.586	110.107	139.501	0.00	0.00		O
ATOM	5480	CB	LYS	A	372	35.347	113.040	140.933	0.00	0.00		C
ATOM	5481	CG	LYS	A	372	34.401	114.263	140.784	0.00	0.00		C
ATOM	5482	CD	LYS	A	372	35.057	115.592	141.248	0.00	0.00		C
ATOM	5483	CE	LYS	A	372	34.061	116.772	141.347	0.00	0.00		C
ATOM	5484	NZ	LYS	A	372	32.942	116.449	142.241	0.00	0.00		N
ATOM	5485	HN	LYS	A	372	33.866	112.319	142.817	0.00	0.00		H
ATOM	5486	HNZ	LYS	A	372	33.220	115.718	142.877	0.00	0.00		H
ATOM	5487	HNZ	LYS	A	372	32.651	117.278	142.758	0.00	0.00		H
ATOM	5488	HNZ	LYS	A	372	32.157	116.108	141.685	0.00	0.00		H
ATOM	5489	HCA	LYS	A	372	33.847	111.709	140.145	0.00	0.00		H
ATOM	5490	HCB	LYS	A	372	35.938	113.119	141.850	0.00	0.00		H
ATOM	5491	HCB	LYS	A	372	36.050	113.059	140.094	0.00	0.00		H
ATOM	5492	HCD	LYS	A	372	35.514	115.456	142.232	0.00	0.00		H
ATOM	5493	HCD	LYS	A	372	35.855	115.860	140.550	0.00	0.00		H
ATOM	5494	HCE	LYS	A	372	34.583	117.647	141.741	0.00	0.00		H
ATOM	5495	HCE	LYS	A	372	33.671	117.022	140.358	0.00	0.00		H
ATOM	5496	HCG	LYS	A	372	34.100	114.359	139.736	0.00	0.00		H
ATOM	5497	HCG	LYS	A	372	33.495	114.081	141.363	0.00	0.00		H
ATOM	5498	N	LEU	A	373	36.286	110.042	141.661	0.00	0.00		N
ATOM	5499	CA	LEU	A	373	37.144	108.896	141.555	0.00	0.00		C
ATOM	5500	C	LEU	A	373	36.389	107.636	141.287	0.00	0.00		C
ATOM	5501	O	LEU	A	373	36.768	106.925	140.325	0.00	0.00		O
ATOM	5502	CB	LEU	A	373	38.017	108.733	142.834	0.00	0.00		C
ATOM	5503	CG	LEU	A	373	39.059	109.862	143.125	0.00	0.00		C
ATOM	5504	CD1	LEU	A	373	39.618	109.720	144.568	0.00	0.00		C
ATOM	5505	CD2	LEU	A	373	40.234	109.877	142.110	0.00	0.00		C
ATOM	5506	HN	LEU	A	373	36.255	110.493	142.504	0.00	0.00		H
ATOM	5507	HCA	LEU	A	373	37.820	109.066	140.712	0.00	0.00		H
ATOM	5508	HCB	LEU	A	373	37.344	108.636	143.690	0.00	0.00		H
ATOM	5509	HCB	LEU	A	373	38.569	107.797	142.741	0.00	0.00		H
ATOM	5510	HCD1	LEU	A	373	38.809	109.780	145.298	0.00	0.00		H
ATOM	5511	HCD1	LEU	A	373	40.132	108.765	144.693	0.00	0.00		H
ATOM	5512	HCD1	LEU	A	373	40.325	110.523	144.786	0.00	0.00		H
ATOM	5513	HCD2	LEU	A	373	40.750	108.915	142.099	0.00	0.00		H
ATOM	5514	HCD2	LEU	A	373	39.875	110.095	141.104	0.00	0.00		H
ATOM	5515	HCD2	LEU	A	373	40.954	110.655	142.374	0.00	0.00		H
ATOM	5516	HCG	LEU	A	373	38.557	110.832	143.061	0.00	0.00		H
ATOM	5517	N	ARG	A	374	35.321	107.244	142.033	0.00	0.00		N
ATOM	5518	CA	ARG	A	374	34.486	106.101	141.729	0.00	0.00		C

ATOM	5519	C	ARG	A	374	33.920	106.210	140.351	0.00	0.00	
ATOM	5520	O	ARG	A	374	34.112	105.297	139.514	0.00	0.00	
ATOM	5521	CB	ARG	A	374	33.370	105.958	142.806	0.00	0.00	
ATOM	5522	CG	ARG	A	374	32.473	104.694	142.639	0.00	0.00	
ATOM	5523	CD	ARG	A	374	33.106	103.367	143.124	0.00	0.00	
ATOM	5524	NE	ARG	A	374	33.014	103.314	144.540	0.00	0.00	
ATOM	5525	CZ	ARG	A	374	33.932	102.945	145.429	0.00	0.00	
ATOM	5526	NH1	ARG	A	374	35.164	102.509	145.208	0.00	0.00	
ATOM	5527	NH2	ARG	A	374	33.425	103.005	146.642	0.00	0.00	
ATOM	5528	HN	ARG	A	374	35.092	107.770	142.802	0.00	0.00	
ATOM	5529	HNE	ARG	A	374	32.171	103.534	144.952	0.00	0.00	
ATOM	5530	HNH1	ARG	A	374	35.516	102.443	144.313	0.00	0.00	
ATOM	5531	HNH1	ARG	A	374	35.711	102.249	145.959	0.00	0.00	
ATOM	5532	HNH2	ARG	A	374	32.529	103.332	146.677	0.00	0.00	
ATOM	5533	HNH2	ARG	A	374	33.818	102.637	147.429	0.00	0.00	
ATOM	5534	HCA	ARG	A	374	35.121	105.212	141.778	0.00	0.00	
ATOM	5535	HCB	ARG	A	374	33.826	105.942	143.800	0.00	0.00	
ATOM	5536	HCB	ARG	A	374	32.728	106.844	142.766	0.00	0.00	
ATOM	5537	HCD	ARG	A	374	32.523	102.532	142.725	0.00	0.00	
ATOM	5538	HCD	ARG	A	374	34.132	103.261	142.762	0.00	0.00	
ATOM	5539	HCG	ARG	A	374	31.544	104.856	143.193	0.00	0.00	
ATOM	5540	HCG	ARG	A	374	32.190	104.578	141.591	0.00	0.00	
ATOM	5541	N	GLY	A	375	33.315	107.362	139.994	0.00	0.00	
ATOM	5542	CA	GLY	A	375	33.144	107.857	138.674	0.00	0.00	
ATOM	5543	C	GLY	A	375	32.152	107.304	137.737	0.00	0.00	
ATOM	5544	O	GLY	A	375	31.531	106.237	137.948	0.00	0.00	
ATOM	5545	HN	GLY	A	375	33.146	108.007	140.676	0.00	0.00	
ATOM	5546	HCA	GLY	A	375	32.926	108.921	138.792	0.00	0.00	
ATOM	5547	HCA	GLY	A	375	34.117	107.763	138.194	0.00	0.00	
ATOM	5548	N	ARG	A	376	32.011	108.014	136.591	0.00	0.00	
ATOM	5549	CA	ARG	A	376	31.388	107.596	135.370	0.00	0.00	
ATOM	5550	C	ARG	A	376	30.030	107.000	135.568	0.00	0.00	
ATOM	5551	O	ARG	A	376	29.078	107.724	135.964	0.00	0.00	
ATOM	5552	CB	ARG	A	376	32.419	106.736	134.550	0.00	0.00	
ATOM	5553	CG	ARG	A	376	33.911	107.192	134.568	0.00	0.00	
ATOM	5554	CD	ARG	A	376	34.197	108.634	134.067	0.00	0.00	
ATOM	5555	NE	ARG	A	376	35.492	109.079	134.487	0.00	0.00	
ATOM	5556	CZ	ARG	A	376	35.814	109.510	135.713	0.00	0.00	
ATOM	5557	NH1	ARG	A	376	34.945	109.584	136.710	0.00	0.00	
ATOM	5558	NH2	ARG	A	376	37.063	109.853	135.972	0.00	0.00	
ATOM	5559	HN	ARG	A	376	32.473	108.855	136.563	0.00	0.00	
ATOM	5560	HNE	ARG	A	376	36.210	109.039	133.841	0.00	0.00	
ATOM	5561	HNH1	ARG	A	376	34.051	109.294	136.557	0.00	0.00	
ATOM	5562	HNH1	ARG	A	376	35.215	109.835	137.596	0.00	0.00	
ATOM	5563	HNH2	ARG	A	376	37.732	109.803	135.278	0.00	0.00	
ATOM	5564	HNH2	ARG	A	376	37.297	110.147	136.860	0.00	0.00	
ATOM	5565	HCA	ARG	A	376	31.214	108.503	134.786	0.00	0.00	
ATOM	5566	HCB	ARG	A	376	32.429	105.718	134.947	0.00	0.00	
ATOM	5567	HCB	ARG	A	376	32.080	106.677	133.511	0.00	0.00	
ATOM	5568	HCD	ARG	A	376	34.161	108.642	132.975	0.00	0.00	
ATOM	5569	HCD	ARG	A	376	33.438	109.337	134.417	0.00	0.00	
ATOM	5570	HCG	ARG	A	376	34.288	107.076	135.587	0.00	0.00	
ATOM	5571	HCG	ARG	A	376	34.492	106.499	133.951	0.00	0.00	
ATOM	5572	N	SER	A	377	29.838	105.673	135.383	0.00	0.00	
ATOM	5573	CA	SER	A	377	28.618	104.954	135.571	0.00	0.00	
ATOM	5574	C	SER	A	377	28.039	105.094	136.930	0.00	0.00	
ATOM	5575	O	SER	A	377	26.794	105.052	137.021	0.00	0.00	
ATOM	5576	CB	SER	A	377	28.837	103.457	135.236	0.00	0.00	
ATOM	5577	OG	SER	A	377	29.815	102.869	136.094	0.00	0.00	
ATOM	5578	HN	SER	A	377	30.602	105.148	135.111	0.00	0.00	
ATOM	5579	HCA	SER	A	377	27.904	105.347	134.843	0.00	0.00	
ATOM	5580	HCB	SER	A	377	27.899	102.905	135.338	0.00	0.00	
ATOM	5581	HCB	SER	A	377	29.175	103.358	134.200	0.00	0.00	
ATOM	5582	HOG	SER	A	377	29.879	101.928	135.814	0.00	0.00	
ATOM	5583	N	PHE	A	378	28.787	105.313	138.038	0.00	0.00	
ATOM	5584	CA	PHE	A	378	28.276	105.416	139.377	0.00	0.00	
ATOM	5585	C	PHE	A	378	27.588	106.720	139.570	0.00	0.00	
ATOM	5586	O	PHE	A	378	26.436	106.772	140.062	0.00	0.00	
ATOM	5587	CB	PHE	A	378	29.464	105.237	140.365	0.00	0.00	
ATOM	5588	CG	PHE	A	378	29.015	105.092	141.773	0.00	0.00	
ATOM	5589	CD1	PHE	A	378	28.606	103.831	142.261	0.00	0.00	
ATOM	5590	CD2	PHE	A	378	28.985	106.204	142.647	0.00	0.00	
ATOM	5591	CE1	PHE	A	378	28.194	103.679	143.597	0.00	0.00	
ATOM	5592	CE2	PHE	A	378	28.562	106.051	143.980	0.00	0.00	
ATOM	5593	CZ	PHE	A	378	28.174	104.788	144.458	0.00	0.00	
ATOM	5594	HN	PHE	A	378	29.722	105.497	137.926	0.00	0.00	
ATOM	5595	HCA	PHE	A	378	27.565	104.600	139.548	0.00	0.00	
ATOM	5596	HCB	PHE	A	378	30.035	104.347	140.083	0.00	0.00	
ATOM	5597	HCB	PHE	A	378	30.153	106.082	140.277	0.00	0.00	
ATOM	5598	HCD1	PHE	A	378	28.604	103.016	141.645	0.00	0.00	

ATOM	5599	HCD2	PHE	A	378	29.269	107.130	142.318	0.00	0.00		H
ATOM	5600	HCE1	PHE	A	378	27.906	102.765	143.942	0.00	0.00		H
ATOM	5601	HCE2	PHE	A	378	28.537	106.857	144.603	0.00	0.00		H
ATOM	5602	HCZ	PHE	A	378	27.882	104.674	145.430	0.00	0.00		H
ATOM	5603	N	MET	A	379	28.208	107.848	139.156	0.00	0.00		N
ATOM	5604	CA	MET	A	379	27.644	109.168	139.164	0.00	0.00		C
ATOM	5605	C	MET	A	379	26.421	109.214	138.313	0.00	0.00		C
ATOM	5606	O	MET	A	379	25.351	109.680	138.784	0.00	0.00		O
ATOM	5607	CB	MET	A	379	28.748	110.160	138.699	0.00	0.00		C
ATOM	5608	CG	MET	A	379	28.374	111.651	138.909	0.00	0.00		C
ATOM	5609	SD	MET	A	379	29.591	112.791	138.202	0.00	0.00		S
ATOM	5610	CE	MET	A	379	30.958	112.552	139.359	0.00	0.00		C
ATOM	5611	HN	MET	A	379	29.087	107.730	138.765	0.00	0.00		H
ATOM	5612	HCA	MET	A	379	27.375	109.416	140.196	0.00	0.00		H
ATOM	5613	HCB	MET	A	379	29.656	109.951	139.271	0.00	0.00		H
ATOM	5614	HCB	MET	A	379	28.975	109.990	137.643	0.00	0.00		H
ATOM	5615	HCE	MET	A	379	30.620	112.696	140.386	0.00	0.00		H
ATOM	5616	HCE	MET	A	379	31.382	111.556	139.247	0.00	0.00		H
ATOM	5617	HCE	MET	A	379	31.732	113.285	139.135	0.00	0.00		H
ATOM	5618	HCG	MET	A	379	27.426	111.859	138.411	0.00	0.00		H
ATOM	5619	HCG	MET	A	379	28.247	111.867	139.972	0.00	0.00		H
ATOM	5620	N	ASN	A	380	26.456	108.674	137.065	0.00	0.00		N
ATOM	5621	CA	ASN	A	380	25.305	108.540	136.214	0.00	0.00		C
ATOM	5622	C	ASN	A	380	24.197	107.795	136.887	0.00	0.00		C
ATOM	5623	O	ASN	A	380	23.090	108.367	137.021	0.00	0.00		O
ATOM	5624	CB	ASN	A	380	25.736	107.883	134.872	0.00	0.00		C
ATOM	5625	CG	ASN	A	380	24.691	107.947	133.836	0.00	0.00		C
ATOM	5626	ND2	ASN	A	380	24.166	106.852	133.279	0.00	0.00		N
ATOM	5627	OD1	ASN	A	380	24.264	109.045	133.424	0.00	0.00		O
ATOM	5628	HN	ASN	A	380	27.305	108.355	136.737	0.00	0.00		H
ATOM	5629	HND2	ASN	A	380	24.444	105.980	133.535	0.00	0.00		H
ATOM	5630	HND2	ASN	A	380	23.484	106.967	132.601	0.00	0.00		H
ATOM	5631	HCA	ASN	A	380	24.961	109.557	135.991	0.00	0.00		H
ATOM	5632	HCB	ASN	A	380	26.612	108.403	134.477	0.00	0.00		H
ATOM	5633	HCB	ASN	A	380	26.019	106.846	135.050	0.00	0.00		H
ATOM	5634	N	ASN	A	381	24.386	106.556	137.410	0.00	0.00		N
ATOM	5635	CA	ASN	A	381	23.420	105.800	138.160	0.00	0.00		C
ATOM	5636	C	ASN	A	381	22.815	106.582	139.275	0.00	0.00		C
ATOM	5637	O	ASN	A	381	21.568	106.610	139.368	0.00	0.00		O
ATOM	5638	CB	ASN	A	381	24.058	104.495	138.726	0.00	0.00		C
ATOM	5639	CG	ASN	A	381	24.466	103.477	137.747	0.00	0.00		C
ATOM	5640	ND2	ASN	A	381	25.059	102.349	138.145	0.00	0.00		N
ATOM	5641	OD1	ASN	A	381	24.312	103.618	136.518	0.00	0.00		O
ATOM	5642	HN	ASN	A	381	25.227	106.127	137.267	0.00	0.00		H
ATOM	5643	HND2	ASN	A	381	25.220	102.189	139.085	0.00	0.00		H
ATOM	5644	HND2	ASN	A	381	25.323	101.694	137.483	0.00	0.00		H
ATOM	5645	HCA	ASN	A	381	22.623	105.516	137.465	0.00	0.00		H
ATOM	5646	HCB	ASN	A	381	24.941	104.751	139.309	0.00	0.00		H
ATOM	5647	HCB	ASN	A	381	23.342	104.009	139.390	0.00	0.00		H
ATOM	5648	N	TRP	A	382	23.582	107.255	140.166	0.00	0.00		N
ATOM	5649	CA	TRP	A	382	23.100	108.086	141.241	0.00	0.00		C
ATOM	5650	C	TRP	A	382	22.155	109.137	140.769	0.00	0.00		C
ATOM	5651	O	TRP	A	382	20.986	109.164	141.239	0.00	0.00		O
ATOM	5652	CB	TRP	A	382	24.337	108.645	142.006	0.00	0.00		C
ATOM	5653	CG	TRP	A	382	24.058	109.488	143.195	0.00	0.00		C
ATOM	5654	CD1	TRP	A	382	24.466	110.814	143.369	0.00	0.00		C
ATOM	5655	CD2	TRP	A	382	23.417	109.143	144.385	0.00	0.00		C
ATOM	5656	CE2	TRP	A	382	23.473	110.256	145.225	0.00	0.00		C
ATOM	5657	CE3	TRP	A	382	22.803	107.953	144.818	0.00	0.00		C
ATOM	5658	NE1	TRP	A	382	24.098	111.256	144.586	0.00	0.00		N
ATOM	5659	CZ2	TRP	A	382	22.918	110.227	146.516	0.00	0.00		C
ATOM	5660	CZ3	TRP	A	382	22.227	107.915	146.105	0.00	0.00		C
ATOM	5661	CH2	TRP	A	382	22.288	109.043	146.953	0.00	0.00		C
ATOM	5662	HN	TRP	A	382	24.530	107.138	140.091	0.00	0.00		H
ATOM	5663	HNE1	TRP	A	382	24.302	112.123	144.969	0.00	0.00		H
ATOM	5664	HCA	TRP	A	382	22.556	107.438	141.927	0.00	0.00		H
ATOM	5665	HCB	TRP	A	382	24.949	107.807	142.350	0.00	0.00		H
ATOM	5666	HCB	TRP	A	382	24.950	109.217	141.308	0.00	0.00		H
ATOM	5667	HCD1	TRP	A	382	24.992	111.359	142.685	0.00	0.00		H
ATOM	5668	HCE3	TRP	A	382	22.779	107.130	144.222	0.00	0.00		H
ATOM	5669	HCH2	TRP	A	382	21.873	109.001	147.887	0.00	0.00		H
ATOM	5670	HCZ2	TRP	A	382	22.962	111.049	147.121	0.00	0.00		H
ATOM	5671	HCZ3	TRP	A	382	21.769	107.062	146.429	0.00	0.00		H
ATOM	5672	N	GLU	A	383	22.528	110.012	139.802	0.00	0.00		N
ATOM	5673	CA	GLU	A	383	21.648	111.023	139.270	0.00	0.00		C
ATOM	5674	C	GLU	A	383	20.421	110.452	138.633	0.00	0.00		C
ATOM	5675	O	GLU	A	383	19.294	110.901	138.966	0.00	0.00		O
ATOM	5676	CB	GLU	A	383	22.394	111.983	138.300	0.00	0.00		C
ATOM	5677	CG	GLU	A	383	23.602	112.766	138.902	0.00	0.00		C
ATOM	5678	CD	GLU	A	383	23.391	113.379	140.226	0.00	0.00		C



ATOM	5679	OE1	GLU	A	383	22.399	114.078	140.510	0.00	0.00	O
ATOM	5680	OE2	GLU	A	383	24.197	113.218	141.162	0.00	0.00	O
ATOM	5681	HN	GLU	A	383	23.425	109.934	139.452	0.00	0.00	H
ATOM	5682	HCA	GLU	A	383	21.311	111.632	140.114	0.00	0.00	H
ATOM	5683	HCB	GLU	A	383	22.747	111.415	137.434	0.00	0.00	H
ATOM	5684	HCB	GLU	A	383	21.674	112.722	137.931	0.00	0.00	H
ATOM	5685	HCG	GLU	A	383	24.463	112.100	138.965	0.00	0.00	H
ATOM	5686	HCG	GLU	A	383	23.870	113.570	138.214	0.00	0.00	H
ATOM	5687	N	VAL	A	384	20.497	109.426	137.747	0.00	0.00	N
ATOM	5688	CA	VAL	A	384	19.363	108.774	137.136	0.00	0.00	C
ATOM	5689	C	VAL	A	384	18.437	108.244	138.183	0.00	0.00	C
ATOM	5690	O	VAL	A	384	17.239	108.609	138.139	0.00	0.00	O
ATOM	5691	CB	VAL	A	384	19.823	107.701	136.089	0.00	0.00	C
ATOM	5692	CG1	VAL	A	384	18.642	106.872	135.504	0.00	0.00	C
ATOM	5693	CG2	VAL	A	384	20.588	108.344	134.892	0.00	0.00	C
ATOM	5694	HN	VAL	A	384	21.368	109.095	137.524	0.00	0.00	H
ATOM	5695	HCA	VAL	A	384	18.820	109.540	136.571	0.00	0.00	H
ATOM	5696	HCB	VAL	A	384	20.502	107.004	136.592	0.00	0.00	H
ATOM	5697	HCG1	VAL	A	384	17.931	107.520	134.987	0.00	0.00	H
ATOM	5698	HCG1	VAL	A	384	19.008	106.122	134.798	0.00	0.00	H
ATOM	5699	HCG1	VAL	A	384	18.112	106.348	136.296	0.00	0.00	H
ATOM	5700	HCG2	VAL	A	384	21.402	108.981	135.234	0.00	0.00	H
ATOM	5701	HCG2	VAL	A	384	21.016	107.568	134.254	0.00	0.00	H
ATOM	5702	HCG2	VAL	A	384	19.916	108.958	134.289	0.00	0.00	H
ATOM	5703	N	TYR	A	385	18.858	107.462	139.211	0.00	0.00	N
ATOM	5704	CA	TYR	A	385	18.043	107.014	140.311	0.00	0.00	C
ATOM	5705	C	TYR	A	385	17.329	108.149	140.953	0.00	0.00	C
ATOM	5706	O	TYR	A	385	16.077	108.095	141.033	0.00	0.00	O
ATOM	5707	CB	TYR	A	385	18.881	106.223	141.370	0.00	0.00	C
ATOM	5708	CG	TYR	A	385	18.080	105.939	142.598	0.00	0.00	C
ATOM	5709	CD1	TYR	A	385	16.985	105.047	142.540	0.00	0.00	C
ATOM	5710	CD2	TYR	A	385	18.304	106.661	143.794	0.00	0.00	C
ATOM	5711	CE1	TYR	A	385	16.095	104.928	143.621	0.00	0.00	C
ATOM	5712	CE2	TYR	A	385	17.396	106.567	144.865	0.00	0.00	C
ATOM	5713	CZ	TYR	A	385	16.278	105.719	144.768	0.00	0.00	C
ATOM	5714	OH	TYR	A	385	15.367	105.676	145.764	0.00	0.00	O
ATOM	5715	HN	TYR	A	385	19.775	107.201	139.223	0.00	0.00	H
ATOM	5716	HCA	TYR	A	385	17.298	106.327	139.897	0.00	0.00	H
ATOM	5717	HCB	TYR	A	385	19.235	105.283	140.944	0.00	0.00	H
ATOM	5718	HCB	TYR	A	385	19.770	106.805	141.625	0.00	0.00	H
ATOM	5719	HCD1	TYR	A	385	16.804	104.511	141.693	0.00	0.00	H
ATOM	5720	HCD2	TYR	A	385	19.104	107.294	143.877	0.00	0.00	H
ATOM	5721	HCE1	TYR	A	385	15.300	104.288	143.559	0.00	0.00	H
ATOM	5722	HCE2	TYR	A	385	17.540	107.125	145.709	0.00	0.00	H
ATOM	5723	HOH	TYR	A	385	14.556	105.168	145.630	0.00	0.00	H
ATOM	5724	N	LYS	A	386	18.020	109.211	141.438	0.00	0.00	N
ATOM	5725	CA	LYS	A	386	17.406	110.354	142.059	0.00	0.00	C
ATOM	5726	C	LYS	A	386	16.308	110.910	141.227	0.00	0.00	C
ATOM	5727	O	LYS	A	386	15.166	111.006	141.735	0.00	0.00	O
ATOM	5728	CB	LYS	A	386	18.486	111.427	142.377	0.00	0.00	C
ATOM	5729	CG	LYS	A	386	19.301	111.089	143.656	0.00	0.00	C
ATOM	5730	CD	LYS	A	386	20.745	111.639	143.658	0.00	0.00	C
ATOM	5731	CE	LYS	A	386	20.912	113.167	143.527	0.00	0.00	C
ATOM	5732	NZ	LYS	A	386	22.341	113.484	143.400	0.00	0.00	N
ATOM	5733	HN	LYS	A	386	18.981	109.192	141.362	0.00	0.00	H
ATOM	5734	HNZ	LYS	A	386	22.578	113.577	142.426	0.00	0.00	H
ATOM	5735	HNZ	LYS	A	386	22.544	114.368	143.864	0.00	0.00	H
ATOM	5736	HNZ	LYS	A	386	22.905	112.747	143.800	0.00	0.00	H
ATOM	5737	HCA	LYS	A	386	16.968	110.019	143.007	0.00	0.00	H
ATOM	5738	HCB	LYS	A	386	19.151	111.525	141.517	0.00	0.00	H
ATOM	5739	HCB	LYS	A	386	18.011	112.401	142.531	0.00	0.00	H
ATOM	5740	HCD	LYS	A	386	21.178	111.346	144.611	0.00	0.00	H
ATOM	5741	HCD	LYS	A	386	21.311	111.151	142.863	0.00	0.00	H
ATOM	5742	HCE	LYS	A	386	20.390	113.547	142.647	0.00	0.00	H
ATOM	5743	HCE	LYS	A	386	20.508	113.658	144.415	0.00	0.00	H
ATOM	5744	HCG	LYS	A	386	18.765	111.461	144.534	0.00	0.00	H
ATOM	5745	HCG	LYS	A	386	19.380	110.002	143.765	0.00	0.00	H
ATOM	5746	N	LEU	A	387	16.510	111.223	139.925	0.00	0.00	N
ATOM	5747	CA	LEU	A	387	15.473	111.674	139.033	0.00	0.00	C
ATOM	5748	C	LEU	A	387	14.327	110.708	138.971	0.00	0.00	C
ATOM	5749	O	LEU	A	387	13.190	111.080	139.359	0.00	0.00	O
ATOM	5750	CB	LEU	A	387	16.071	111.970	137.623	0.00	0.00	C
ATOM	5751	CG	LEU	A	387	17.178	113.077	137.565	0.00	0.00	C
ATOM	5752	CD1	LEU	A	387	17.975	112.993	136.235	0.00	0.00	C
ATOM	5753	CD2	LEU	A	387	16.625	114.514	137.749	0.00	0.00	C
ATOM	5754	HN	LEU	A	387	17.405	111.113	139.585	0.00	0.00	H
ATOM	5755	HCA	LEU	A	387	15.087	112.616	139.431	0.00	0.00	H
ATOM	5756	HCB	LEU	A	387	16.488	111.034	137.241	0.00	0.00	H
ATOM	5757	HCB	LEU	A	387	15.260	112.256	136.948	0.00	0.00	H
ATOM	5758	HCD1	LEU	A	387	17.319	113.170	135.381	0.00	0.00	H

ATOM	5759	HCD1	LEU	A	387	18.775	113.737	136.220	0.00	0.00	H
ATOM	5760	HCD1	LEU	A	387	18.435	112.010	136.126	0.00	0.00	H
ATOM	5761	HCD2	LEU	A	387	15.937	114.767	136.942	0.00	0.00	H
ATOM	5762	HCD2	LEU	A	387	16.109	114.614	138.704	0.00	0.00	H
ATOM	5763	HCD2	LEU	A	387	17.443	115.238	137.741	0.00	0.00	H
ATOM	5764	HCG	LEU	A	387	17.891	112.908	138.375	0.00	0.00	H
ATOM	5765	N	LEU	A	388	14.500	109.420	138.582	0.00	0.00	N
ATOM	5766	CA	LEU	A	388	13.446	108.443	138.440	0.00	0.00	C
ATOM	5767	C	LEU	A	388	12.605	108.284	139.659	0.00	0.00	C
ATOM	5768	O	LEU	A	388	11.356	108.191	139.542	0.00	0.00	O
ATOM	5769	CB	LEU	A	388	14.015	107.051	138.021	0.00	0.00	C
ATOM	5770	CG	LEU	A	388	14.740	106.967	136.641	0.00	0.00	C
ATOM	5771	CD1	LEU	A	388	15.130	105.500	136.320	0.00	0.00	C
ATOM	5772	CD2	LEU	A	388	13.902	107.552	135.486	0.00	0.00	C
ATOM	5773	HN	LEU	A	388	15.400	109.145	138.402	0.00	0.00	H
ATOM	5774	HCA	LEU	A	388	12.778	108.797	137.652	0.00	0.00	H
ATOM	5775	HCB	LEU	A	388	14.712	106.717	138.796	0.00	0.00	H
ATOM	5776	HCB	LEU	A	388	13.185	106.338	138.000	0.00	0.00	H
ATOM	5777	HCD1	LEU	A	388	15.723	105.080	137.132	0.00	0.00	H
ATOM	5778	HCD1	LEU	A	388	14.242	104.882	136.178	0.00	0.00	H
ATOM	5779	HCD1	LEU	A	388	15.728	105.456	135.408	0.00	0.00	H
ATOM	5780	HCD2	LEU	A	388	13.793	108.631	135.588	0.00	0.00	H
ATOM	5781	HCD2	LEU	A	388	14.391	107.363	134.530	0.00	0.00	H
ATOM	5782	HCD2	LEU	A	388	12.916	107.091	135.494	0.00	0.00	H
ATOM	5783	HCG	LEU	A	388	15.659	107.546	136.682	0.00	0.00	H
ATOM	5784	N	ALA	A	389	13.195	108.222	140.872	0.00	0.00	N
ATOM	5785	CA	ALA	A	389	12.525	108.103	142.130	0.00	0.00	C
ATOM	5786	C	ALA	A	389	11.883	109.349	142.642	0.00	0.00	C
ATOM	5787	O	ALA	A	389	11.334	109.267	143.769	0.00	0.00	O
ATOM	5788	CB	ALA	A	389	13.569	107.530	143.123	0.00	0.00	C
ATOM	5789	HN	ALA	A	389	14.154	108.248	140.896	0.00	0.00	H
ATOM	5790	HCA	ALA	A	389	11.732	107.353	142.033	0.00	0.00	H
ATOM	5791	HCB	ALA	A	389	14.367	108.254	143.307	0.00	0.00	H
ATOM	5792	HCB	ALA	A	389	13.100	107.274	144.075	0.00	0.00	H
ATOM	5793	HCB	ALA	A	389	14.010	106.620	142.715	0.00	0.00	H
ATOM	5794	N	HIS	A	390	11.825	110.539	141.981	0.00	0.00	N
ATOM	5795	CA	HIS	A	390	11.106	111.696	142.480	0.00	0.00	C
ATOM	5796	C	HIS	A	390	9.634	111.477	142.681	0.00	0.00	C
ATOM	5797	O	HIS	A	390	9.054	110.443	142.271	0.00	0.00	O
ATOM	5798	CB	HIS	A	390	11.392	112.957	141.598	0.00	0.00	C
ATOM	5799	CG	HIS	A	390	12.509	113.789	142.099	0.00	0.00	C
ATOM	5800	CD2	HIS	A	390	12.440	115.087	142.599	0.00	0.00	C
ATOM	5801	ND1	HIS	A	390	13.802	113.451	142.181	0.00	0.00	N
ATOM	5802	CE1	HIS	A	390	14.499	114.483	142.670	0.00	0.00	C
ATOM	5803	NE2	HIS	A	390	13.669	115.503	142.936	0.00	0.00	N
ATOM	5804	HN	HIS	A	390	12.276	110.625	141.131	0.00	0.00	H
ATOM	5805	HND1	HIS	A	390	14.193	112.611	141.957	0.00	0.00	H
ATOM	5806	HCA	HIS	A	390	11.501	111.897	143.480	0.00	0.00	H
ATOM	5807	HCB	HIS	A	390	11.614	112.661	140.574	0.00	0.00	H
ATOM	5808	HCB	HIS	A	390	10.506	113.595	141.538	0.00	0.00	H
ATOM	5809	HCD2	HIS	A	390	11.593	115.639	142.706	0.00	0.00	H
ATOM	5810	HCE1	HIS	A	390	15.510	114.490	142.826	0.00	0.00	H
ATOM	5811	N	ILE	A	391	8.933	112.413	143.365	0.00	0.00	N
ATOM	5812	CA	ILE	A	391	7.530	112.386	143.701	0.00	0.00	C
ATOM	5813	C	ILE	A	391	6.835	113.598	143.171	0.00	0.00	C
ATOM	5814	O	ILE	A	391	5.930	114.153	143.838	0.00	0.00	O
ATOM	5815	CB	ILE	A	391	7.383	112.146	145.254	0.00	0.00	C
ATOM	5816	CG1	ILE	A	391	8.255	113.064	146.178	0.00	0.00	C
ATOM	5817	CG2	ILE	A	391	7.679	110.658	145.610	0.00	0.00	C
ATOM	5818	CD1	ILE	A	391	8.016	114.586	146.062	0.00	0.00	C
ATOM	5819	HN	ILE	A	391	9.434	113.177	143.685	0.00	0.00	H
ATOM	5820	HCA	ILE	A	391	7.030	111.560	143.186	0.00	0.00	H
ATOM	5821	HCB	ILE	A	391	6.335	112.309	145.529	0.00	0.00	H
ATOM	5822	HCD1	ILE	A	391	8.332	114.959	145.089	0.00	0.00	H
ATOM	5823	HCD1	ILE	A	391	6.961	114.819	146.215	0.00	0.00	H
ATOM	5824	HCD1	ILE	A	391	8.593	115.109	146.828	0.00	0.00	H
ATOM	5825	HCG1	ILE	A	391	8.049	112.799	147.220	0.00	0.00	H
ATOM	5826	HCG1	ILE	A	391	9.314	112.869	145.999	0.00	0.00	H
ATOM	5827	HCG2	ILE	A	391	7.007	109.991	145.066	0.00	0.00	H
ATOM	5828	HCG2	ILE	A	391	8.707	110.392	145.358	0.00	0.00	H
ATOM	5829	HCG2	ILE	A	391	7.531	110.483	146.678	0.00	0.00	H
ATOM	5830	N	ARG	A	392	7.151	114.092	141.947	0.00	0.00	N
ATOM	5831	CA	ARG	A	392	6.625	115.300	141.353	0.00	0.00	C
ATOM	5832	C	ARG	A	392	5.641	114.940	140.270	0.00	0.00	C
ATOM	5833	O	ARG	A	392	4.683	114.259	140.721	0.00	0.00	O
ATOM	5834	CB	ARG	A	392	7.828	116.242	141.052	0.00	0.00	C
ATOM	5835	CG	ARG	A	392	8.616	116.723	142.305	0.00	0.00	C
ATOM	5836	CD	ARG	A	392	9.599	117.884	142.004	0.00	0.00	C
ATOM	5837	NE	ARG	A	392	10.579	117.507	141.036	0.00	0.00	N
ATOM	5838	CZ	ARG	A	392	11.513	118.312	140.521	0.00	0.00	C

ATOM	5839	NH1	ARG	A	392	11.626	119.598	140.818	0.00	0.00	N
ATOM	5840	NH2	ARG	A	392	12.382	117.810	139.662	0.00	0.00	N
ATOM	5841	HN	ARG	A	392	7.789	113.579	141.429	0.00	0.00	H
ATOM	5842	HNE	ARG	A	392	10.589	116.591	140.735	0.00	0.00	H
ATOM	5843	HNH1	ARG	A	392	11.011	120.002	141.441	0.00	0.00	H
ATOM	5844	HNH1	ARG	A	392	12.322	120.127	140.411	0.00	0.00	H
ATOM	5845	HNH2	ARG	A	392	12.347	116.877	139.425	0.00	0.00	H
ATOM	5846	HNH2	ARG	A	392	13.059	118.382	139.278	0.00	0.00	H
ATOM	5847	HCA	ARG	A	392	6.019	115.853	142.080	0.00	0.00	H
ATOM	5848	HCB	ARG	A	392	8.528	115.741	140.383	0.00	0.00	H
ATOM	5849	HCB	ARG	A	392	7.445	117.140	140.573	0.00	0.00	H
ATOM	5850	HCD	ARG	A	392	9.031	118.748	141.644	0.00	0.00	H
ATOM	5851	HCD	ARG	A	392	10.100	118.170	142.934	0.00	0.00	H
ATOM	5852	HCG	ARG	A	392	7.909	117.075	143.062	0.00	0.00	H
ATOM	5853	HCG	ARG	A	392	9.164	115.883	142.736	0.00	0.00	H
ATOM	5854	N	PRO	A	393	5.601	115.237	138.923	0.00	0.00	N
ATOM	5855	CA	PRO	A	393	6.546	116.002	138.138	0.00	0.00	C
ATOM	5856	C	PRO	A	393	6.408	117.466	138.243	0.00	0.00	C
ATOM	5857	O	PRO	A	393	5.414	117.897	138.820	0.00	0.00	O
ATOM	5858	CB	PRO	A	393	6.264	115.543	136.684	0.00	0.00	C
ATOM	5859	CG	PRO	A	393	4.764	115.248	136.671	0.00	0.00	C
ATOM	5860	CD	PRO	A	393	4.500	114.785	138.111	0.00	0.00	C
ATOM	5861	HCA	PRO	A	393	7.557	115.687	138.382	0.00	0.00	H
ATOM	5862	HCB	PRO	A	393	6.522	116.282	135.919	0.00	0.00	H
ATOM	5863	HCB	PRO	A	393	6.821	114.631	136.472	0.00	0.00	H
ATOM	5864	HCD	PRO	A	393	3.550	115.193	138.471	0.00	0.00	H
ATOM	5865	HCD	PRO	A	393	4.453	113.698	138.145	0.00	0.00	H
ATOM	5866	HCG	PRO	A	393	4.201	116.161	136.455	0.00	0.00	H
ATOM	5867	HCG	PRO	A	393	4.504	114.480	135.937	0.00	0.00	H
ATOM	5868	N	PRO	A	394	7.277	118.345	137.734	0.00	0.00	N
ATOM	5869	CA	PRO	A	394	6.981	119.753	137.565	0.00	0.00	C
ATOM	5870	C	PRO	A	394	5.775	120.003	136.775	0.00	0.00	C
ATOM	5871	O	PRO	A	394	5.578	119.336	135.766	0.00	0.00	O
ATOM	5872	CB	PRO	A	394	8.241	120.360	136.896	0.00	0.00	C
ATOM	5873	CG	PRO	A	394	9.345	119.354	137.236	0.00	0.00	C
ATOM	5874	CD	PRO	A	394	8.587	118.020	137.249	0.00	0.00	C
ATOM	5875	HCA	PRO	A	394	6.875	120.197	138.561	0.00	0.00	H
ATOM	5876	HCB	PRO	A	394	8.137	120.422	135.806	0.00	0.00	H
ATOM	5877	HCB	PRO	A	394	8.472	121.355	137.286	0.00	0.00	H
ATOM	5878	HCD	PRO	A	394	8.515	117.627	136.232	0.00	0.00	H
ATOM	5879	HCD	PRO	A	394	9.122	117.310	137.885	0.00	0.00	H
ATOM	5880	HCG	PRO	A	394	10.151	119.360	136.496	0.00	0.00	H
ATOM	5881	HCG	PRO	A	394	9.759	119.567	138.226	0.00	0.00	H
ATOM	5882	N	ALA	A	395	4.909	120.929	137.148	0.00	0.00	N
ATOM	5883	CA	ALA	A	395	3.651	121.223	136.514	0.00	0.00	C
ATOM	5884	C	ALA	A	395	3.770	121.466	135.036	0.00	0.00	C
ATOM	5885	O	ALA	A	395	4.582	122.362	134.697	0.00	0.00	O
ATOM	5886	CB	ALA	A	395	3.020	122.439	137.237	0.00	0.00	C
ATOM	5887	HN	ALA	A	395	5.131	121.433	137.945	0.00	0.00	H
ATOM	5888	HCA	ALA	A	395	3.001	120.370	136.711	0.00	0.00	H
ATOM	5889	HCB	ALA	A	395	2.879	122.217	138.298	0.00	0.00	H
ATOM	5890	HCB	ALA	A	395	3.660	123.319	137.150	0.00	0.00	H
ATOM	5891	HCB	ALA	A	395	2.044	122.673	136.805	0.00	0.00	H
ATOM	5892	N	PRO	A	396	3.103	120.772	134.060	0.00	0.00	N
ATOM	5893	CA	PRO	A	396	3.353	120.947	132.646	0.00	0.00	C
ATOM	5894	C	PRO	A	396	2.866	122.215	132.097	0.00	0.00	C
ATOM	5895	O	PRO	A	396	1.778	122.656	132.447	0.00	0.00	O
ATOM	5896	CB	PRO	A	396	2.672	119.721	131.989	0.00	0.00	C
ATOM	5897	CG	PRO	A	396	1.535	119.373	132.957	0.00	0.00	C
ATOM	5898	CD	PRO	A	396	2.116	119.765	134.325	0.00	0.00	C
ATOM	5899	HCA	PRO	A	396	4.432	120.864	132.464	0.00	0.00	H
ATOM	5900	HCB	PRO	A	396	2.297	119.920	130.980	0.00	0.00	H
ATOM	5901	HCB	PRO	A	396	3.375	118.883	131.938	0.00	0.00	H
ATOM	5902	HCD	PRO	A	396	1.319	120.140	134.974	0.00	0.00	H
ATOM	5903	HCD	PRO	A	396	2.589	118.894	134.791	0.00	0.00	H
ATOM	5904	HCG	PRO	A	396	0.650	119.976	132.733	0.00	0.00	H
ATOM	5905	HCG	PRO	A	396	1.270	118.313	132.913	0.00	0.00	H
ATOM	5906	N	LYS	A	397	3.587	122.849	131.189	0.00	0.00	N
ATOM	5907	CA	LYS	A	397	3.261	124.077	130.503	0.00	0.00	C
ATOM	5908	C	LYS	A	397	2.737	123.807	129.132	0.00	0.00	C
ATOM	5909	O	LYS	A	397	2.734	122.649	128.655	0.00	0.00	O
ATOM	5910	CB	LYS	A	397	4.544	124.974	130.447	0.00	0.00	C
ATOM	5911	CG	LYS	A	397	4.840	125.818	131.719	0.00	0.00	C
ATOM	5912	CD	LYS	A	397	5.029	124.986	133.011	0.00	0.00	C
ATOM	5913	CE	LYS	A	397	5.544	125.814	134.211	0.00	0.00	C
ATOM	5914	NZ	LYS	A	397	5.647	124.961	135.400	0.00	0.00	N
ATOM	5915	HN	LYS	A	397	4.419	122.422	130.935	0.00	0.00	H
ATOM	5916	HNZ	LYS	A	397	5.278	124.052	135.184	0.00	0.00	H
ATOM	5917	HNZ	LYS	A	397	6.624	124.865	135.677	0.00	0.00	H
ATOM	5918	HNZ	LYS	A	397	5.115	125.367	136.169	0.00	0.00	H

ATOM	5919	HCA	LYS	A	397	2.474	124.622	131.034	0.00	0.00	H
ATOM	5920	HCB	LYS	A	397	5.416	124.352	130.218	0.00	0.00	H
ATOM	5921	HCB	LYS	A	397	4.459	125.693	129.627	0.00	0.00	H
ATOM	5922	HCD	LYS	A	397	4.064	124.556	133.288	0.00	0.00	H
ATOM	5923	HCD	LYS	A	397	5.733	124.171	132.818	0.00	0.00	H
ATOM	5924	HCE	LYS	A	397	6.528	126.233	133.987	0.00	0.00	H
ATOM	5925	HCE	LYS	A	397	4.854	126.635	134.422	0.00	0.00	H
ATOM	5926	HCG	LYS	A	397	5.753	126.393	131.533	0.00	0.00	H
ATOM	5927	HCG	LYS	A	397	4.027	126.535	131.870	0.00	0.00	H
ATOM	5928	N	SER	A	398	2.274	124.836	128.383	0.00	0.00	N
ATOM	5929	CA	SER	A	398	1.894	124.765	126.996	0.00	0.00	C
ATOM	5930	C	SER	A	398	3.084	124.592	126.117	0.00	0.00	C
ATOM	5931	O	SER	A	398	3.062	123.707	125.225	0.00	0.00	O
ATOM	5932	CB	SER	A	398	1.107	126.040	126.602	0.00	0.00	C
ATOM	5933	OG	SER	A	398	-0.078	126.160	127.389	0.00	0.00	O
ATOM	5934	HN	SER	A	398	2.234	125.704	128.812	0.00	0.00	H
ATOM	5935	HCA	SER	A	398	1.218	123.914	126.855	0.00	0.00	H
ATOM	5936	HCB	SER	A	398	1.722	126.932	126.749	0.00	0.00	H
ATOM	5937	HCB	SER	A	398	0.817	125.988	125.548	0.00	0.00	H
ATOM	5938	HOG	SER	A	398	-0.520	126.982	127.072	0.00	0.00	H
ATOM	5939	N	GLY	A	399	4.181	125.373	126.303	0.00	0.00	N
ATOM	5940	CA	GLY	A	399	5.434	125.286	125.599	0.00	0.00	C
ATOM	5941	C	GLY	A	399	6.277	124.141	126.019	0.00	0.00	C
ATOM	5942	O	GLY	A	399	7.448	124.301	126.431	0.00	0.00	O
ATOM	5943	HN	GLY	A	399	4.121	126.033	127.012	0.00	0.00	H
ATOM	5944	HCA	GLY	A	399	5.250	125.210	124.524	0.00	0.00	H
ATOM	5945	HCA	GLY	A	399	5.981	126.216	125.768	0.00	0.00	H
ATOM	5946	N	SER	A	400	5.720	122.922	125.923	0.00	0.00	N
ATOM	5947	CA	SER	A	400	6.272	121.633	126.227	0.00	0.00	C
ATOM	5948	C	SER	A	400	6.403	120.827	124.982	0.00	0.00	C
ATOM	5949	O	SER	A	400	5.454	120.844	124.154	0.00	0.00	O
ATOM	5950	CB	SER	A	400	5.298	120.932	127.217	0.00	0.00	C
ATOM	5951	OG	SER	A	400	4.009	120.742	126.629	0.00	0.00	O
ATOM	5952	HN	SER	A	400	4.810	122.975	125.633	0.00	0.00	H
ATOM	5953	HCA	SER	A	400	7.253	121.722	126.704	0.00	0.00	H
ATOM	5954	HCB	SER	A	400	5.686	119.954	127.489	0.00	0.00	H
ATOM	5955	HCB	SER	A	400	5.197	121.519	128.133	0.00	0.00	H
ATOM	5956	HOG	SER	A	400	4.259	120.677	125.696	0.00	0.00	H
ATOM	5957	N	TYR	A	401	7.453	119.995	124.765	0.00	0.00	N
ATOM	5958	CA	TYR	A	401	7.546	119.100	123.645	0.00	0.00	C
ATOM	5959	C	TYR	A	401	6.728	117.887	123.910	0.00	0.00	C
ATOM	5960	O	TYR	A	401	6.490	117.538	125.091	0.00	0.00	O
ATOM	5961	CB	TYR	A	401	9.019	118.733	123.303	0.00	0.00	C
ATOM	5962	CG	TYR	A	401	9.933	119.896	123.102	0.00	0.00	C
ATOM	5963	CD1	TYR	A	401	9.613	120.933	122.191	0.00	0.00	C
ATOM	5964	CD2	TYR	A	401	11.164	119.974	123.797	0.00	0.00	C
ATOM	5965	CE1	TYR	A	401	10.482	122.021	121.996	0.00	0.00	C
ATOM	5966	CE2	TYR	A	401	12.039	121.058	123.599	0.00	0.00	C
ATOM	5967	CZ	TYR	A	401	11.693	122.087	122.704	0.00	0.00	C
ATOM	5968	OH	TYR	A	401	12.516	123.142	122.524	0.00	0.00	O
ATOM	5969	HN	TYR	A	401	8.115	119.876	125.448	0.00	0.00	H
ATOM	5970	HCA	TYR	A	401	7.118	119.591	122.767	0.00	0.00	H
ATOM	5971	HCB	TYR	A	401	9.406	118.078	124.089	0.00	0.00	H
ATOM	5972	HCB	TYR	A	401	9.027	118.149	122.380	0.00	0.00	H
ATOM	5973	HCD1	TYR	A	401	8.744	120.907	121.657	0.00	0.00	H
ATOM	5974	HCD2	TYR	A	401	11.438	119.236	124.450	0.00	0.00	H
ATOM	5975	HCE1	TYR	A	401	10.234	122.766	121.341	0.00	0.00	H
ATOM	5976	HCE2	TYR	A	401	12.924	121.097	124.107	0.00	0.00	H
ATOM	5977	HOH	TYR	A	401	13.354	123.200	123.028	0.00	0.00	H
ATOM	5978	N	THR	A	402	6.178	117.208	122.881	0.00	0.00	N
ATOM	5979	CA	THR	A	402	5.227	116.134	123.020	0.00	0.00	C
ATOM	5980	C	THR	A	402	5.654	114.926	122.265	0.00	0.00	C
ATOM	5981	O	THR	A	402	5.686	114.940	121.017	0.00	0.00	O
ATOM	5982	CB	THR	A	402	3.791	116.660	122.738	0.00	0.00	C
ATOM	5983	CG2	THR	A	402	3.639	117.685	121.601	0.00	0.00	C
ATOM	5984	OG1	THR	A	402	2.912	115.574	122.502	0.00	0.00	O
ATOM	5985	HN	THR	A	402	6.390	117.520	121.990	0.00	0.00	H
ATOM	5986	HCA	THR	A	402	5.191	115.817	124.059	0.00	0.00	H
ATOM	5987	HCB	THR	A	402	3.435	117.170	123.638	0.00	0.00	H
ATOM	5988	HCG2	THR	A	402	4.047	117.283	120.678	0.00	0.00	H
ATOM	5989	HCG2	THR	A	402	2.580	117.907	121.464	0.00	0.00	H
ATOM	5990	HCG2	THR	A	402	4.155	118.616	121.843	0.00	0.00	H
ATOM	5991	HOG1	THR	A	402	2.785	115.550	121.535	0.00	0.00	H
ATOM	5992	N	VAL	A	403	6.065	113.832	122.944	0.00	0.00	N
ATOM	5993	CA	VAL	A	403	6.855	112.730	122.449	0.00	0.00	C
ATOM	5994	C	VAL	A	403	6.110	111.443	122.478	0.00	0.00	C
ATOM	5995	O	VAL	A	403	5.272	111.277	123.388	0.00	0.00	O
ATOM	5996	CB	VAL	A	403	8.126	112.642	123.364	0.00	0.00	C
ATOM	5997	CG1	VAL	A	403	9.084	111.496	122.928	0.00	0.00	C
ATOM	5998	CG2	VAL	A	403	8.891	113.997	123.454	0.00	0.00	C

ATOM	5999	HN	VAL	A	403	5.873	113.844	123.882	0.00	0.00		H
ATOM	6000	HCA	VAL	A	403	7.174	112.915	121.418	0.00	0.00		H
ATOM	6001	HCb	VAL	A	403	7.791	112.410	124.382	0.00	0.00		H
ATOM	6002	HCG1	VAL	A	403	9.331	111.578	121.871	0.00	0.00		H
ATOM	6003	HCG1	VAL	A	403	10.007	111.525	123.501	0.00	0.00		H
ATOM	6004	HCG1	VAL	A	403	8.633	110.519	123.107	0.00	0.00		H
ATOM	6005	HCG2	VAL	A	403	8.297	114.738	123.994	0.00	0.00		H
ATOM	6006	HCG2	VAL	A	403	9.832	113.883	123.995	0.00	0.00		H
ATOM	6007	HCG2	VAL	A	403	9.096	114.387	122.457	0.00	0.00		H
ATOM	6008	N	ALA	A	404	6.386	110.427	121.623	0.00	0.00		N
ATOM	6009	CA	ALA	A	404	5.793	109.114	121.643	0.00	0.00		C
ATOM	6010	C	ALA	A	404	6.767	108.034	121.971	0.00	0.00		C
ATOM	6011	O	ALA	A	404	7.835	107.955	121.316	0.00	0.00		O
ATOM	6012	CB	ALA	A	404	5.156	108.848	120.263	0.00	0.00		C
ATOM	6013	HN	ALA	A	404	7.047	110.585	120.948	0.00	0.00		H
ATOM	6014	HCA	ALA	A	404	4.977	109.071	122.365	0.00	0.00		H
ATOM	6015	HCb	ALA	A	404	4.335	109.544	120.102	0.00	0.00		H
ATOM	6016	HCb	ALA	A	404	5.894	108.965	119.470	0.00	0.00		H
ATOM	6017	HCb	ALA	A	404	4.755	107.837	120.212	0.00	0.00		H
ATOM	6018	N	VAL	A	405	6.451	107.106	122.911	0.00	0.00		N
ATOM	6019	CA	VAL	A	405	7.177	105.888	123.187	0.00	0.00		C
ATOM	6020	C	VAL	A	405	6.443	104.695	122.658	0.00	0.00		C
ATOM	6021	O	VAL	A	405	5.248	104.482	122.997	0.00	0.00		O
ATOM	6022	CB	VAL	A	405	7.615	105.778	124.689	0.00	0.00		C
ATOM	6023	CG1	VAL	A	405	6.451	105.621	125.703	0.00	0.00		C
ATOM	6024	CG2	VAL	A	405	8.654	104.640	124.908	0.00	0.00		C
ATOM	6025	HN	VAL	A	405	5.653	107.280	123.410	0.00	0.00		H
ATOM	6026	HCA	VAL	A	405	8.118	105.944	122.642	0.00	0.00		H
ATOM	6027	HCb	VAL	A	405	8.123	106.717	124.939	0.00	0.00		H
ATOM	6028	HCG1	VAL	A	405	5.752	106.447	125.611	0.00	0.00		H
ATOM	6029	HCG1	VAL	A	405	5.916	104.685	125.543	0.00	0.00		H
ATOM	6030	HCG1	VAL	A	405	6.836	105.626	126.723	0.00	0.00		H
ATOM	6031	HCG2	VAL	A	405	9.514	104.768	124.248	0.00	0.00		H
ATOM	6032	HCG2	VAL	A	405	9.021	104.651	125.936	0.00	0.00		H
ATOM	6033	HCG2	VAL	A	405	8.208	103.664	124.708	0.00	0.00		H
ATOM	6034	N	MET	A	406	7.088	103.860	121.796	0.00	0.00		N
ATOM	6035	CA	MET	A	406	6.573	102.631	121.235	0.00	0.00		C
ATOM	6036	C	MET	A	406	7.479	101.458	121.407	0.00	0.00		C
ATOM	6037	O	MET	A	406	8.669	101.593	121.780	0.00	0.00		O
ATOM	6038	CB	MET	A	406	6.164	102.834	119.741	0.00	0.00		C
ATOM	6039	CG	MET	A	406	7.317	102.866	118.706	0.00	0.00		C
ATOM	6040	SD	MET	A	406	6.751	102.568	117.010	0.00	0.00		S
ATOM	6041	CE	MET	A	406	5.893	104.123	116.706	0.00	0.00		C
ATOM	6042	HN	MET	A	406	7.979	104.126	121.560	0.00	0.00		H
ATOM	6043	HCA	MET	A	406	5.661	102.364	121.779	0.00	0.00		H
ATOM	6044	HCb	MET	A	406	5.472	102.031	119.468	0.00	0.00		H
ATOM	6045	HCb	MET	A	406	5.619	103.775	119.655	0.00	0.00		H
ATOM	6046	HCE	MET	A	406	6.559	104.954	116.911	0.00	0.00		H
ATOM	6047	HCE	MET	A	406	5.587	104.160	115.662	0.00	0.00		H
ATOM	6048	HCE	MET	A	406	5.011	104.205	117.335	0.00	0.00		H
ATOM	6049	HCG	MET	A	406	7.855	103.814	118.766	0.00	0.00		H
ATOM	6050	HCG	MET	A	406	8.024	102.068	118.919	0.00	0.00		H
ATOM	6051	N	ASN	A	407	6.995	100.216	121.162	0.00	0.00		N
ATOM	6052	CA	ASN	A	407	7.687	98.961	121.309	0.00	0.00		C
ATOM	6053	C	ASN	A	407	7.599	98.172	120.042	0.00	0.00		C
ATOM	6054	O	ASN	A	407	6.461	97.957	119.573	0.00	0.00		O
ATOM	6055	CB	ASN	A	407	7.064	98.214	122.528	0.00	0.00		C
ATOM	6056	CG	ASN	A	407	7.340	98.796	123.862	0.00	0.00		C
ATOM	6057	ND2	ASN	A	407	7.993	99.942	124.063	0.00	0.00		N
ATOM	6058	OD1	ASN	A	407	6.954	98.215	124.898	0.00	0.00		O
ATOM	6059	HN	ASN	A	407	6.069	100.167	120.874	0.00	0.00		H
ATOM	6060	HND2	ASN	A	407	8.259	100.470	123.318	0.00	0.00		H
ATOM	6061	HND2	ASN	A	407	8.168	100.238	124.966	0.00	0.00		H
ATOM	6062	HCA	ASN	A	407	8.741	99.123	121.528	0.00	0.00		H
ATOM	6063	HCb	ASN	A	407	5.980	98.155	122.408	0.00	0.00		H
ATOM	6064	HCb	ASN	A	407	7.449	97.194	122.540	0.00	0.00		H
ATOM	6065	N	VAL	A	408	8.681	97.696	119.369	0.00	0.00		N
ATOM	6066	CA	VAL	A	408	8.670	97.026	118.070	0.00	0.00		C
ATOM	6067	C	VAL	A	408	9.464	95.754	118.010	0.00	0.00		C
ATOM	6068	O	VAL	A	408	10.674	95.731	118.345	0.00	0.00		O
ATOM	6069	CB	VAL	A	408	9.129	98.034	116.958	0.00	0.00		C
ATOM	6070	CG1	VAL	A	408	9.267	97.380	115.548	0.00	0.00		C
ATOM	6071	CG2	VAL	A	408	8.168	99.250	116.846	0.00	0.00		C
ATOM	6072	HN	VAL	A	408	9.519	97.899	119.786	0.00	0.00		H
ATOM	6073	HCA	VAL	A	408	7.643	96.751	117.812	0.00	0.00		H
ATOM	6074	HCb	VAL	A	408	10.109	98.424	117.246	0.00	0.00		H
ATOM	6075	HCG1	VAL	A	408	10.040	96.611	115.544	0.00	0.00		H
ATOM	6076	HCG1	VAL	A	408	8.323	96.927	115.237	0.00	0.00		H
ATOM	6077	HCG1	VAL	A	408	9.555	98.120	114.804	0.00	0.00		H
ATOM	6078	HCG2	VAL	A	408	7.177	98.935	116.516	0.00	0.00		H

ATOM	6079	HCG2	VAL	A	408	8.070	99.760	117.803	0.00	0.00	H
ATOM	6080	HCG2	VAL	A	408	8.558	99.976	116.134	0.00	0.00	H
ATOM	6081	N	GLY	A	409	8.916	94.652	117.433	0.00	0.00	N
ATOM	6082	CA	GLY	A	409	9.554	93.393	117.174	0.00	0.00	C
ATOM	6083	C	GLY	A	409	8.939	92.271	117.907	0.00	0.00	C
ATOM	6084	O	GLY	A	409	7.693	92.140	117.906	0.00	0.00	O
ATOM	6085	HN	GLY	A	409	8.026	94.729	117.081	0.00	0.00	H
ATOM	6086	HCA	GLY	A	409	9.424	93.186	116.118	0.00	0.00	H
ATOM	6087	HCA	GLY	A	409	10.630	93.430	117.368	0.00	0.00	H
ATOM	6088	N	ALA	A	410	9.733	91.401	118.568	0.00	0.00	N
ATOM	6089	CA	ALA	A	410	9.314	90.389	119.492	0.00	0.00	C
ATOM	6090	C	ALA	A	410	9.926	90.762	120.801	0.00	0.00	C
ATOM	6091	O	ALA	A	410	11.077	90.318	121.034	0.00	0.00	O
ATOM	6092	CB	ALA	A	410	9.721	88.994	118.961	0.00	0.00	C
ATOM	6093	HN	ALA	A	410	10.688	91.506	118.446	0.00	0.00	H
ATOM	6094	HCA	ALA	A	410	8.227	90.356	119.604	0.00	0.00	H
ATOM	6095	HCB	ALA	A	410	10.781	88.968	118.698	0.00	0.00	H
ATOM	6096	HCB	ALA	A	410	9.529	88.231	119.718	0.00	0.00	H
ATOM	6097	HCB	ALA	A	410	9.126	88.757	118.079	0.00	0.00	H
ATOM	6098	N	PRO	A	411	9.363	91.668	121.663	0.00	0.00	N
ATOM	6099	CA	PRO	A	411	9.992	92.143	122.864	0.00	0.00	C
ATOM	6100	C	PRO	A	411	10.700	91.265	123.784	0.00	0.00	C
ATOM	6101	O	PRO	A	411	10.655	90.045	123.730	0.00	0.00	O
ATOM	6102	CB	PRO	A	411	8.877	92.888	123.630	0.00	0.00	C
ATOM	6103	CG	PRO	A	411	7.931	93.378	122.539	0.00	0.00	C
ATOM	6104	CD	PRO	A	411	8.186	92.432	121.353	0.00	0.00	C
ATOM	6105	HCA	PRO	A	411	10.728	92.862	122.497	0.00	0.00	H
ATOM	6106	HCB	PRO	A	411	8.351	92.224	124.311	0.00	0.00	H
ATOM	6107	HCB	PRO	A	411	9.268	93.701	124.231	0.00	0.00	H
ATOM	6108	HCD	PRO	A	411	7.319	91.793	121.174	0.00	0.00	H
ATOM	6109	HCD	PRO	A	411	8.358	93.036	120.460	0.00	0.00	H
ATOM	6110	HCG	PRO	A	411	8.172	94.408	122.266	0.00	0.00	H
ATOM	6111	HCG	PRO	A	411	6.896	93.331	122.878	0.00	0.00	H
ATOM	6112	N	ALA	A	412	11.383	91.898	124.714	0.00	0.00	N
ATOM	6113	CA	ALA	A	412	12.251	91.365	125.698	0.00	0.00	C
ATOM	6114	C	ALA	A	412	11.806	91.734	127.061	0.00	0.00	C
ATOM	6115	O	ALA	A	412	11.482	92.928	127.315	0.00	0.00	O
ATOM	6116	CB	ALA	A	412	13.627	92.015	125.421	0.00	0.00	C
ATOM	6117	HN	ALA	A	412	11.306	92.862	124.710	0.00	0.00	H
ATOM	6118	HCA	ALA	A	412	12.351	90.276	125.617	0.00	0.00	H
ATOM	6119	HCB	ALA	A	412	13.544	93.097	125.289	0.00	0.00	H
ATOM	6120	HCB	ALA	A	412	14.286	91.842	126.269	0.00	0.00	H
ATOM	6121	HCB	ALA	A	412	14.078	91.585	124.524	0.00	0.00	H
ATOM	6122	N	ALA	A	413	11.937	90.812	128.047	0.00	0.00	N
ATOM	6123	CA	ALA	A	413	12.101	91.143	129.430	0.00	0.00	C
ATOM	6124	C	ALA	A	413	13.004	92.315	129.639	0.00	0.00	C
ATOM	6125	O	ALA	A	413	14.226	92.207	129.385	0.00	0.00	O
ATOM	6126	CB	ALA	A	413	12.614	89.869	130.138	0.00	0.00	C
ATOM	6127	HN	ALA	A	413	11.986	89.874	127.814	0.00	0.00	H
ATOM	6128	HCA	ALA	A	413	11.125	91.378	129.839	0.00	0.00	H
ATOM	6129	HCB	ALA	A	413	13.544	89.525	129.680	0.00	0.00	H
ATOM	6130	HCB	ALA	A	413	12.803	90.077	131.183	0.00	0.00	H
ATOM	6131	HCB	ALA	A	413	11.877	89.068	130.079	0.00	0.00	H
ATOM	6132	N	GLY	A	414	12.477	93.505	130.023	0.00	0.00	N
ATOM	6133	CA	GLY	A	414	13.200	94.733	130.194	0.00	0.00	C
ATOM	6134	C	GLY	A	414	12.627	95.898	129.503	0.00	0.00	C
ATOM	6135	O	GLY	A	414	12.871	97.022	130.011	0.00	0.00	O
ATOM	6136	HN	GLY	A	414	11.522	93.525	130.187	0.00	0.00	H
ATOM	6137	HCA	GLY	A	414	13.186	94.963	131.258	0.00	0.00	H
ATOM	6138	HCA	GLY	A	414	14.247	94.650	129.899	0.00	0.00	H
ATOM	6139	N	MET	A	415	11.841	95.802	128.397	0.00	0.00	N
ATOM	6140	CA	MET	A	415	11.279	96.970	127.746	0.00	0.00	C
ATOM	6141	C	MET	A	415	10.597	97.898	128.691	0.00	0.00	C
ATOM	6142	O	MET	A	415	10.799	99.133	128.619	0.00	0.00	O
ATOM	6143	CB	MET	A	415	10.279	96.636	126.607	0.00	0.00	C
ATOM	6144	CG	MET	A	415	10.927	96.010	125.350	0.00	0.00	C
ATOM	6145	SD	MET	A	415	9.856	96.333	123.927	0.00	0.00	S
ATOM	6146	CE	MET	A	415	10.979	95.803	122.629	0.00	0.00	C
ATOM	6147	HN	MET	A	415	11.686	94.919	128.029	0.00	0.00	H
ATOM	6148	HCA	MET	A	415	12.118	97.519	127.308	0.00	0.00	H
ATOM	6149	HCB	MET	A	415	9.498	95.971	126.980	0.00	0.00	H
ATOM	6150	HCB	MET	A	415	9.792	97.571	126.306	0.00	0.00	H
ATOM	6151	HCE	MET	A	415	11.530	94.913	122.918	0.00	0.00	H
ATOM	6152	HCE	MET	A	415	10.420	95.613	121.713	0.00	0.00	H
ATOM	6153	HCE	MET	A	415	11.679	96.606	122.454	0.00	0.00	H
ATOM	6154	HCG	MET	A	415	11.909	96.442	125.168	0.00	0.00	H
ATOM	6155	HCG	MET	A	415	11.050	94.936	125.490	0.00	0.00	H
ATOM	6156	N	ASN	A	416	9.804	97.389	129.656	0.00	0.00	N
ATOM	6157	CA	ASN	A	416	9.102	98.148	130.647	0.00	0.00	C
ATOM	6158	C	ASN	A	416	9.953	99.087	131.442	0.00	0.00	C

ATOM	6159	O	ASN	A	416	9.420	100.119	131.917	0.00	0.00	O
ATOM	6160	CB	ASN	A	416	8.332	97.183	131.592	0.00	0.00	C
ATOM	6161	CG	ASN	A	416	7.609	96.094	130.918	0.00	0.00	C
ATOM	6162	ND2	ASN	A	416	7.798	94.824	131.283	0.00	0.00	N
ATOM	6163	OD1	ASN	A	416	6.798	96.341	130.001	0.00	0.00	O
ATOM	6164	HN	ASN	A	416	9.677	96.428	129.653	0.00	0.00	H
ATOM	6165	HND2	ASN	A	416	8.407	94.597	131.979	0.00	0.00	H
ATOM	6166	HND2	ASN	A	416	7.328	94.093	130.885	0.00	0.00	H
ATOM	6167	HCA	ASN	A	416	8.357	98.739	130.106	0.00	0.00	H
ATOM	6168	HCB	ASN	A	416	9.018	96.763	132.334	0.00	0.00	H
ATOM	6169	HCB	ASN	A	416	7.578	97.758	132.119	0.00	0.00	H
ATOM	6170	N	ALA	A	417	11.280	98.871	131.631	0.00	0.00	N
ATOM	6171	CA	ALA	A	417	12.165	99.698	132.407	0.00	0.00	C
ATOM	6172	C	ALA	A	417	12.665	100.846	131.598	0.00	0.00	C
ATOM	6173	O	ALA	A	417	12.774	101.981	132.130	0.00	0.00	O
ATOM	6174	CB	ALA	A	417	13.313	98.811	132.943	0.00	0.00	C
ATOM	6175	HN	ALA	A	417	11.703	98.163	131.138	0.00	0.00	H
ATOM	6176	HCA	ALA	A	417	11.634	100.084	133.282	0.00	0.00	H
ATOM	6177	HCB	ALA	A	417	12.913	97.988	133.538	0.00	0.00	H
ATOM	6178	HCB	ALA	A	417	13.888	98.387	132.123	0.00	0.00	H
ATOM	6179	HCB	ALA	A	417	13.982	99.395	133.578	0.00	0.00	H
ATOM	6180	N	ALA	A	418	12.926	100.658	130.279	0.00	0.00	N
ATOM	6181	CA	ALA	A	418	13.178	101.697	129.320	0.00	0.00	C
ATOM	6182	C	ALA	A	418	11.979	102.561	129.154	0.00	0.00	C
ATOM	6183	O	ALA	A	418	12.110	103.804	129.229	0.00	0.00	O
ATOM	6184	CB	ALA	A	418	13.608	101.095	127.960	0.00	0.00	C
ATOM	6185	HN	ALA	A	418	12.842	99.751	129.951	0.00	0.00	H
ATOM	6186	HCA	ALA	A	418	14.010	102.308	129.678	0.00	0.00	H
ATOM	6187	HCB	ALA	A	418	14.506	100.491	128.072	0.00	0.00	H
ATOM	6188	HCB	ALA	A	418	12.820	100.473	127.533	0.00	0.00	H
ATOM	6189	HCB	ALA	A	418	13.838	101.900	127.260	0.00	0.00	H
ATOM	6190	N	VAL	A	419	10.751	102.011	128.982	0.00	0.00	N
ATOM	6191	CA	VAL	A	419	9.510	102.747	128.960	0.00	0.00	C
ATOM	6192	C	VAL	A	419	9.368	103.561	130.201	0.00	0.00	C
ATOM	6193	O	VAL	A	419	9.216	104.803	130.078	0.00	0.00	O
ATOM	6194	CB	VAL	A	419	8.283	101.803	128.727	0.00	0.00	C
ATOM	6195	CG1	VAL	A	419	6.917	102.534	128.860	0.00	0.00	C
ATOM	6196	CG2	VAL	A	419	8.338	101.108	127.337	0.00	0.00	C
ATOM	6197	HN	VAL	A	419	10.727	101.058	128.883	0.00	0.00	H
ATOM	6198	HCA	VAL	A	419	9.558	103.432	128.107	0.00	0.00	H
ATOM	6199	HCB	VAL	A	419	8.308	101.024	129.492	0.00	0.00	H
ATOM	6200	HCG1	VAL	A	419	6.858	103.375	128.165	0.00	0.00	H
ATOM	6201	HCG1	VAL	A	419	6.101	101.846	128.647	0.00	0.00	H
ATOM	6202	HCG1	VAL	A	419	6.769	102.910	129.874	0.00	0.00	H
ATOM	6203	HCG2	VAL	A	419	9.282	100.587	127.195	0.00	0.00	H
ATOM	6204	HCG2	VAL	A	419	7.537	100.372	127.247	0.00	0.00	H
ATOM	6205	HCG2	VAL	A	419	8.232	101.843	126.538	0.00	0.00	H
ATOM	6206	N	ARG	A	420	9.432	102.995	131.437	0.00	0.00	N
ATOM	6207	CA	ARG	A	420	9.403	103.729	132.672	0.00	0.00	C
ATOM	6208	C	ARG	A	420	10.343	104.878	132.684	0.00	0.00	C
ATOM	6209	O	ARG	A	420	9.874	106.019	132.925	0.00	0.00	O
ATOM	6210	CB	ARG	A	420	9.627	102.782	133.888	0.00	0.00	C
ATOM	6211	CG	ARG	A	420	9.736	103.524	135.255	0.00	0.00	C
ATOM	6212	CD	ARG	A	420	9.634	102.587	136.481	0.00	0.00	C
ATOM	6213	NE	ARG	A	420	10.190	103.196	137.649	0.00	0.00	N
ATOM	6214	CZ	ARG	A	420	11.491	103.266	137.957	0.00	0.00	C
ATOM	6215	NH1	ARG	A	420	12.467	102.779	137.203	0.00	0.00	N
ATOM	6216	NH2	ARG	A	420	11.836	103.865	139.084	0.00	0.00	N
ATOM	6217	HN	ARG	A	420	9.474	102.039	131.508	0.00	0.00	H
ATOM	6218	HNE	ARG	A	420	9.578	103.623	138.263	0.00	0.00	H
ATOM	6219	HNH1	ARG	A	420	12.264	102.356	136.361	0.00	0.00	H
ATOM	6220	HNH1	ARG	A	420	13.387	102.852	137.489	0.00	0.00	H
ATOM	6221	HNH2	ARG	A	420	11.159	104.239	139.660	0.00	0.00	H
ATOM	6222	HNH2	ARG	A	420	12.769	103.931	139.324	0.00	0.00	H
ATOM	6223	HCA	ARG	A	420	8.393	104.125	132.764	0.00	0.00	H
ATOM	6224	HCB	ARG	A	420	8.801	102.067	133.925	0.00	0.00	H
ATOM	6225	HCB	ARG	A	420	10.546	102.214	133.731	0.00	0.00	H
ATOM	6226	HCD	ARG	A	420	8.583	102.364	136.673	0.00	0.00	H
ATOM	6227	HCD	ARG	A	420	10.125	101.638	136.275	0.00	0.00	H
ATOM	6228	HCG	ARG	A	420	10.695	104.049	135.282	0.00	0.00	H
ATOM	6229	HCG	ARG	A	420	8.951	104.278	135.335	0.00	0.00	H
ATOM	6230	N	SER	A	421	11.667	104.712	132.448	0.00	0.00	N
ATOM	6231	CA	SER	A	421	12.587	105.813	132.428	0.00	0.00	C
ATOM	6232	C	SER	A	421	12.284	106.842	131.411	0.00	0.00	C
ATOM	6233	O	SER	A	421	12.273	108.034	131.785	0.00	0.00	O
ATOM	6234	CB	SER	A	421	14.048	105.381	132.264	0.00	0.00	C
ATOM	6235	OG	SER	A	421	14.212	104.645	131.067	0.00	0.00	O
ATOM	6236	HN	SER	A	421	12.008	103.823	132.297	0.00	0.00	H
ATOM	6237	HCA	SER	A	421	12.518	106.276	133.409	0.00	0.00	H
ATOM	6238	HCB	SER	A	421	14.704	106.254	132.236	0.00	0.00	H

ATOM	6239	HC	SER	A	421	14.345	104.779	133.116	0.00	0.00	
ATOM	6240	HOG	SER	A	421	15.165	104.518	131.051	0.00	0.00	
ATOM	6241	N	THR	A	422	12.013	106.538	130.123	0.00	0.00	
ATOM	6242	CA	THR	A	422	11.639	107.497	129.120	0.00	0.00	
ATOM	6243	C	THR	A	422	10.463	108.302	129.567	0.00	0.00	
ATOM	6244	O	THR	A	422	10.565	109.552	129.564	0.00	0.00	
ATOM	6245	CB	THR	A	422	11.414	106.763	127.766	0.00	0.00	
ATOM	6246	CG2	THR	A	422	10.980	107.672	126.598	0.00	0.00	
ATOM	6247	OG1	THR	A	422	12.608	106.090	127.346	0.00	0.00	
ATOM	6248	HN	THR	A	422	12.061	105.617	129.860	0.00	0.00	
ATOM	6249	HCA	THR	A	422	12.489	108.172	128.979	0.00	0.00	
ATOM	6250	HC	THR	A	422	10.638	106.002	127.903	0.00	0.00	
ATOM	6251	HCG2	THR	A	422	11.801	108.327	126.316	0.00	0.00	
ATOM	6252	HCG2	THR	A	422	10.711	107.058	125.739	0.00	0.00	
ATOM	6253	HCG2	THR	A	422	10.109	108.273	126.863	0.00	0.00	
ATOM	6254	HOG1	THR	A	422	13.383	106.671	127.476	0.00	0.00	
ATOM	6255	N	VAL	A	423	9.345	107.714	130.066	0.00	0.00	
ATOM	6256	CA	VAL	A	423	8.207	108.410	130.627	0.00	0.00	
ATOM	6257	C	VAL	A	423	8.608	109.328	131.738	0.00	0.00	
ATOM	6258	O	VAL	A	423	8.378	110.562	131.648	0.00	0.00	
ATOM	6259	CB	VAL	A	423	7.085	107.382	131.019	0.00	0.00	
ATOM	6260	CG1	VAL	A	423	5.920	108.006	131.840	0.00	0.00	
ATOM	6261	CG2	VAL	A	423	6.480	106.684	129.764	0.00	0.00	
ATOM	6262	HN	VAL	A	423	9.320	106.753	130.068	0.00	0.00	
ATOM	6263	HCA	VAL	A	423	7.790	109.034	129.843	0.00	0.00	
ATOM	6264	HC	VAL	A	423	7.540	106.606	131.642	0.00	0.00	
ATOM	6265	HCG1	VAL	A	423	5.484	108.852	131.303	0.00	0.00	
ATOM	6266	HCG1	VAL	A	423	5.133	107.271	132.024	0.00	0.00	
ATOM	6267	HCG1	VAL	A	423	6.276	108.350	132.811	0.00	0.00	
ATOM	6268	HCG2	VAL	A	423	5.908	107.393	129.164	0.00	0.00	
ATOM	6269	HCG2	VAL	A	423	7.263	106.259	129.137	0.00	0.00	
ATOM	6270	HCG2	VAL	A	423	5.812	105.872	130.059	0.00	0.00	
ATOM	6271	N	ARG	A	424	9.246	108.839	132.826	0.00	0.00	
ATOM	6272	CA	ARG	A	424	9.667	109.602	133.971	0.00	0.00	
ATOM	6273	C	ARG	A	424	10.559	110.746	133.621	0.00	0.00	
ATOM	6274	O	ARG	A	424	10.279	111.887	134.053	0.00	0.00	
ATOM	6275	CB	ARG	A	424	10.350	108.640	134.989	0.00	0.00	
ATOM	6276	CG	ARG	A	424	9.371	107.712	135.775	0.00	0.00	
ATOM	6277	CD	ARG	A	424	8.722	108.418	136.988	0.00	0.00	
ATOM	6278	NE	ARG	A	424	7.698	107.636	137.599	0.00	0.00	
ATOM	6279	CZ	ARG	A	424	7.755	106.984	138.760	0.00	0.00	
ATOM	6280	NH1	ARG	A	424	8.776	106.883	139.602	0.00	0.00	
ATOM	6281	NH2	ARG	A	424	6.612	106.401	139.070	0.00	0.00	
ATOM	6282	HN	ARG	A	424	9.437	107.900	132.833	0.00	0.00	
ATOM	6283	HNE	ARG	A	424	6.830	107.587	137.189	0.00	0.00	
ATOM	6284	HNH1	ARG	A	424	9.608	107.339	139.465	0.00	0.00	
ATOM	6285	HNH1	ARG	A	424	8.660	106.368	140.407	0.00	0.00	
ATOM	6286	HNH2	ARG	A	424	5.894	106.564	138.461	0.00	0.00	
ATOM	6287	HNH2	ARG	A	424	6.503	105.882	139.874	0.00	0.00	
ATOM	6288	HCA	ARG	A	424	8.767	110.016	134.436	0.00	0.00	
ATOM	6289	HC	ARG	A	424	11.051	108.015	134.434	0.00	0.00	
ATOM	6290	HC	ARG	A	424	10.941	109.214	135.709	0.00	0.00	
ATOM	6291	HCD	ARG	A	424	9.499	108.694	137.705	0.00	0.00	
ATOM	6292	HCD	ARG	A	424	8.253	109.336	136.646	0.00	0.00	
ATOM	6293	HCG	ARG	A	424	8.593	107.343	135.104	0.00	0.00	
ATOM	6294	HCG	ARG	A	424	9.926	106.845	136.145	0.00	0.00	
ATOM	6295	N	ILE	A	425	11.648	110.591	132.834	0.00	0.00	
ATOM	6296	CA	ILE	A	425	12.534	111.640	132.409	0.00	0.00	
ATOM	6297	C	ILE	A	425	11.818	112.609	131.537	0.00	0.00	
ATOM	6298	O	ILE	A	425	11.943	113.824	131.804	0.00	0.00	
ATOM	6299	CB	ILE	A	425	13.840	111.060	131.765	0.00	0.00	
ATOM	6300	CG1	ILE	A	425	14.667	110.184	132.765	0.00	0.00	
ATOM	6301	CG2	ILE	A	425	14.746	112.148	131.112	0.00	0.00	
ATOM	6302	CD1	ILE	A	425	15.231	110.880	134.028	0.00	0.00	
ATOM	6303	HN	ILE	A	425	11.829	109.717	132.502	0.00	0.00	
ATOM	6304	HCA	ILE	A	425	12.842	112.181	133.306	0.00	0.00	
ATOM	6305	HC	ILE	A	425	13.528	110.396	130.950	0.00	0.00	
ATOM	6306	HCD1	ILE	A	425	15.832	111.749	133.760	0.00	0.00	
ATOM	6307	HCD1	ILE	A	425	14.426	111.193	134.693	0.00	0.00	
ATOM	6308	HCD1	ILE	A	425	15.868	110.183	134.577	0.00	0.00	
ATOM	6309	HCG1	ILE	A	425	14.053	109.346	133.092	0.00	0.00	
ATOM	6310	HCG1	ILE	A	425	15.510	109.756	132.228	0.00	0.00	
ATOM	6311	HCG2	ILE	A	425	14.241	112.599	130.257	0.00	0.00	
ATOM	6312	HCG2	ILE	A	425	14.982	112.938	131.827	0.00	0.00	
ATOM	6313	HCG2	ILE	A	425	15.679	111.711	130.750	0.00	0.00	
ATOM	6314	N	GLY	A	426	11.005	112.252	130.513	0.00	0.00	
ATOM	6315	CA	GLY	A	426	10.229	113.184	129.743	0.00	0.00	
ATOM	6316	C	GLY	A	426	9.369	114.056	130.566	0.00	0.00	
ATOM	6317	O	GLY	A	426	9.418	115.302	130.432	0.00	0.00	
ATOM	6318	HN	GLY	A	426	10.915	111.325	130.281	0.00	0.00	



ATOM	6319	HCA	GLY	A	426	10.892	113.784	129.116	0.00	0.00		H
ATOM	6320	HCA	GLY	A	426	9.574	112.620	129.094	0.00	0.00		H
ATOM	6321	N	LEU	A	427	8.588	113.503	131.518	0.00	0.00		N
ATOM	6322	CA	LEU	A	427	7.846	114.268	132.476	0.00	0.00		C
ATOM	6323	C	LEU	A	427	8.733	115.156	133.293	0.00	0.00		C
ATOM	6324	O	LEU	A	427	8.467	116.380	133.325	0.00	0.00		O
ATOM	6325	CB	LEU	A	427	6.970	113.306	133.323	0.00	0.00		C
ATOM	6326	CG	LEU	A	427	5.834	112.577	132.533	0.00	0.00		C
ATOM	6327	CD1	LEU	A	427	5.291	111.383	133.355	0.00	0.00		C
ATOM	6328	CD2	LEU	A	427	4.661	113.517	132.140	0.00	0.00		C
ATOM	6329	HN	LEU	A	427	8.547	112.542	131.566	0.00	0.00		H
ATOM	6330	HCA	LEU	A	427	7.166	114.920	131.925	0.00	0.00		H
ATOM	6331	HCB	LEU	A	427	7.636	112.557	133.753	0.00	0.00		H
ATOM	6332	HCB	LEU	A	427	6.519	113.861	134.147	0.00	0.00		H
ATOM	6333	HCD1	LEU	A	427	6.102	110.717	133.654	0.00	0.00		H
ATOM	6334	HCD1	LEU	A	427	4.783	111.742	134.250	0.00	0.00		H
ATOM	6335	HCD1	LEU	A	427	4.588	110.803	132.756	0.00	0.00		H
ATOM	6336	HCD2	LEU	A	427	4.995	114.291	131.451	0.00	0.00		H
ATOM	6337	HCD2	LEU	A	427	3.873	112.952	131.637	0.00	0.00		H
ATOM	6338	HCD2	LEU	A	427	4.235	113.995	133.024	0.00	0.00		H
ATOM	6339	HCG	LEU	A	427	6.251	112.164	131.610	0.00	0.00		H
ATOM	6340	N	ILE	A	428	9.838	114.721	133.955	0.00	0.00		N
ATOM	6341	CA	ILE	A	428	10.733	115.563	134.724	0.00	0.00		C
ATOM	6342	C	ILE	A	428	11.336	116.689	133.941	0.00	0.00		C
ATOM	6343	O	ILE	A	428	11.457	117.809	134.493	0.00	0.00		O
ATOM	6344	CB	ILE	A	428	11.764	114.735	135.591	0.00	0.00		C
ATOM	6345	CG1	ILE	A	428	11.750	115.207	137.086	0.00	0.00		C
ATOM	6346	CG2	ILE	A	428	13.214	114.710	135.019	0.00	0.00		C
ATOM	6347	CD1	ILE	A	428	12.653	114.405	138.053	0.00	0.00		C
ATOM	6348	HN	ILE	A	428	10.012	113.781	133.936	0.00	0.00		H
ATOM	6349	HCA	ILE	A	428	10.051	116.045	135.425	0.00	0.00		H
ATOM	6350	HCB	ILE	A	428	11.426	113.695	135.602	0.00	0.00		H
ATOM	6351	HCD1	ILE	A	428	12.522	113.332	137.907	0.00	0.00		H
ATOM	6352	HCD1	ILE	A	428	13.698	114.655	137.885	0.00	0.00		H
ATOM	6353	HCD1	ILE	A	428	12.409	114.648	139.087	0.00	0.00		H
ATOM	6354	HCG1	ILE	A	428	12.035	116.262	137.131	0.00	0.00		H
ATOM	6355	HCG1	ILE	A	428	10.727	115.124	137.467	0.00	0.00		H
ATOM	6356	HCG2	ILE	A	428	13.208	114.500	133.952	0.00	0.00		H
ATOM	6357	HCG2	ILE	A	428	13.710	115.669	135.178	0.00	0.00		H
ATOM	6358	HCG2	ILE	A	428	13.805	113.929	135.501	0.00	0.00		H
ATOM	6359	N	GLN	A	429	11.707	116.539	132.644	0.00	0.00		N
ATOM	6360	CA	GLN	A	429	12.100	117.597	131.743	0.00	0.00		C
ATOM	6361	C	GLN	A	429	11.099	118.665	131.616	0.00	0.00		C
ATOM	6362	O	GLN	A	429	11.478	119.749	131.185	0.00	0.00		O
ATOM	6363	CB	GLN	A	429	12.371	117.051	130.300	0.00	0.00		C
ATOM	6364	CG	GLN	A	429	13.604	116.129	130.076	0.00	0.00		C
ATOM	6365	CD	GLN	A	429	13.633	115.468	128.743	0.00	0.00		C
ATOM	6366	NE2	GLN	A	429	14.689	114.728	128.383	0.00	0.00		N
ATOM	6367	OE1	GLN	A	429	12.699	115.576	127.915	0.00	0.00		O
ATOM	6368	HN	GLN	A	429	11.722	115.643	132.315	0.00	0.00		H
ATOM	6369	HNE2	GLN	A	429	15.415	114.617	129.011	0.00	0.00		H
ATOM	6370	HNE2	GLN	A	429	14.752	114.312	127.517	0.00	0.00		H
ATOM	6371	HCA	GLN	A	429	13.027	118.033	132.129	0.00	0.00		H
ATOM	6372	HCB	GLN	A	429	11.477	116.524	129.971	0.00	0.00		H
ATOM	6373	HCB	GLN	A	429	12.509	117.896	129.616	0.00	0.00		H
ATOM	6374	HCG	GLN	A	429	14.509	116.732	130.177	0.00	0.00		H
ATOM	6375	HCG	GLN	A	429	13.639	115.357	130.841	0.00	0.00		H
ATOM	6376	N	GLY	A	430	9.811	118.472	131.861	0.00	0.00		N
ATOM	6377	CA	GLY	A	430	8.742	119.366	131.521	0.00	0.00		C
ATOM	6378	C	GLY	A	430	8.073	119.024	130.246	0.00	0.00		C
ATOM	6379	O	GLY	A	430	7.339	119.907	129.741	0.00	0.00		O
ATOM	6380	HN	GLY	A	430	9.523	117.663	132.287	0.00	0.00		H
ATOM	6381	HCA	GLY	A	430	7.995	119.323	132.317	0.00	0.00		H
ATOM	6382	HCA	GLY	A	430	9.094	120.400	131.468	0.00	0.00		H
ATOM	6383	N	ASN	A	431	8.208	117.817	129.637	0.00	0.00		N
ATOM	6384	CA	ASN	A	431	7.652	117.435	128.367	0.00	0.00		C
ATOM	6385	C	ASN	A	431	6.555	116.432	128.529	0.00	0.00		C
ATOM	6386	O	ASN	A	431	6.370	115.852	129.624	0.00	0.00		O
ATOM	6387	CB	ASN	A	431	8.823	116.964	127.446	0.00	0.00		C
ATOM	6388	CG	ASN	A	431	9.782	118.045	127.125	0.00	0.00		C
ATOM	6389	ND2	ASN	A	431	11.111	117.901	127.191	0.00	0.00		N
ATOM	6390	OD1	ASN	A	431	9.386	119.167	126.736	0.00	0.00		O
ATOM	6391	HN	ASN	A	431	8.692	117.109	130.069	0.00	0.00		H
ATOM	6392	HND2	ASN	A	431	11.540	117.083	127.448	0.00	0.00		H
ATOM	6393	HND2	ASN	A	431	11.661	118.664	126.963	0.00	0.00		H
ATOM	6394	HCA	ASN	A	431	7.188	118.294	127.883	0.00	0.00		H
ATOM	6395	HCB	ASN	A	431	9.353	116.130	127.911	0.00	0.00		H
ATOM	6396	HCB	ASN	A	431	8.423	116.600	126.500	0.00	0.00		H
ATOM	6397	N	ARG	A	432	5.715	116.178	127.499	0.00	0.00		N
ATOM	6398	CA	ARG	A	432	4.543	115.333	127.517	0.00	0.00		C

ATOM	6399	C	ARG	A	432	4.854	114.035	126.862	0.00	0.00	
ATOM	6400	O	ARG	A	432	5.427	114.049	125.747	0.00	0.00	
ATOM	6401	CB	ARG	A	432	3.376	116.092	126.813	0.00	0.00	
ATOM	6402	CG	ARG	A	432	2.005	115.349	126.815	0.00	0.00	
ATOM	6403	CD	ARG	A	432	0.874	116.090	126.045	0.00	0.00	
ATOM	6404	NE	ARG	A	432	0.854	115.797	124.641	0.00	0.00	
ATOM	6405	CZ	ARG	A	432	-0.210	115.538	123.868	0.00	0.00	
ATOM	6406	NH1	ARG	A	432	-1.455	115.300	124.256	0.00	0.00	
ATOM	6407	NH2	ARG	A	432	0.105	115.478	122.587	0.00	0.00	
ATOM	6408	HN	ARG	A	432	5.936	116.614	126.677	0.00	0.00	
ATOM	6409	HNE	ARG	A	432	1.673	115.803	124.138	0.00	0.00	
ATOM	6410	HNH1	ARG	A	432	-1.662	115.135	125.178	0.00	0.00	
ATOM	6411	HNH1	ARG	A	432	-2.145	115.205	123.590	0.00	0.00	
ATOM	6412	HNH2	ARG	A	432	1.030	115.554	122.415	0.00	0.00	
ATOM	6413	HNH2	ARG	A	432	-0.479	115.316	121.844	0.00	0.00	
ATOM	6414	HCA	ARG	A	432	4.228	115.137	128.547	0.00	0.00	
ATOM	6415	HCB	ARG	A	432	3.245	117.056	127.314	0.00	0.00	
ATOM	6416	HCB	ARG	A	432	3.660	116.299	125.785	0.00	0.00	
ATOM	6417	HCD	ARG	A	432	-0.080	115.838	126.506	0.00	0.00	
ATOM	6418	HCD	ARG	A	432	1.000	117.169	126.166	0.00	0.00	
ATOM	6419	HCG	ARG	A	432	2.120	114.348	126.399	0.00	0.00	
ATOM	6420	HCG	ARG	A	432	1.692	115.231	127.857	0.00	0.00	
ATOM	6421	N	VAL	A	433	4.531	112.854	127.446	0.00	0.00	
ATOM	6422	CA	VAL	A	433	4.857	111.554	126.914	0.00	0.00	
ATOM	6423	C	VAL	A	433	3.623	110.781	126.614	0.00	0.00	
ATOM	6424	O	VAL	A	433	2.771	110.525	127.501	0.00	0.00	
ATOM	6425	CB	VAL	A	433	5.853	110.759	127.823	0.00	0.00	
ATOM	6426	CG1	VAL	A	433	6.444	109.540	127.047	0.00	0.00	
ATOM	6427	CG2	VAL	A	433	7.000	111.674	128.333	0.00	0.00	
ATOM	6428	HN	VAL	A	433	4.069	112.884	128.298	0.00	0.00	
ATOM	6429	HCA	VAL	A	433	5.393	111.688	125.971	0.00	0.00	
ATOM	6430	HCB	VAL	A	433	5.319	110.383	128.703	0.00	0.00	
ATOM	6431	HCG1	VAL	A	433	5.653	108.833	126.791	0.00	0.00	
ATOM	6432	HCG1	VAL	A	433	6.931	109.861	126.123	0.00	0.00	
ATOM	6433	HCG1	VAL	A	433	7.183	109.007	127.640	0.00	0.00	
ATOM	6434	HCG2	VAL	A	433	6.615	112.420	129.031	0.00	0.00	
ATOM	6435	HCG2	VAL	A	433	7.756	111.095	128.856	0.00	0.00	
ATOM	6436	HCG2	VAL	A	433	7.471	112.196	127.499	0.00	0.00	
ATOM	6437	N	LEU	A	434	3.458	110.348	125.347	0.00	0.00	
ATOM	6438	CA	LEU	A	434	2.428	109.521	124.816	0.00	0.00	
ATOM	6439	C	LEU	A	434	2.903	108.117	124.709			

ATOM	6479	HN	VAL	A	436	3.197	104.404	123.018	0.00	0.00		H
ATOM	6480	HCA	VAL	A	436	0.744	104.236	121.458	0.00	0.00		H
ATOM	6481	HC	VAL	A	436	3.668	103.646	120.873	0.00	0.00		H
ATOM	6482	HCG1	VAL	A	436	2.197	102.280	119.395	0.00	0.00		H
ATOM	6483	HCG1	VAL	A	436	1.342	103.761	118.904	0.00	0.00		H
ATOM	6484	HCG1	VAL	A	436	3.055	103.518	118.497	0.00	0.00		H
ATOM	6485	HCG2	VAL	A	436	1.985	106.058	120.022	0.00	0.00		H
ATOM	6486	HCG2	VAL	A	436	3.325	106.077	121.177	0.00	0.00		H
ATOM	6487	HCG2	VAL	A	436	3.637	105.719	119.478	0.00	0.00		H
ATOM	6488	N	HSP	A	437	0.328	101.741	121.747	0.00	0.00		N
ATOM	6489	CA	HSP	A	437	0.074	100.322	121.846	0.00	0.00		C
ATOM	6490	C	HSP	A	437	0.035	99.680	120.496	0.00	0.00		C
ATOM	6491	O	HSP	A	437	-0.785	100.127	119.666	0.00	0.00		O
ATOM	6492	CB	HSP	A	437	-1.280	100.068	122.570	0.00	0.00		C
ATOM	6493	CG	HSP	A	437	-1.418	100.675	123.909	0.00	0.00		C
ATOM	6494	CD2	HSP	A	437	-2.159	101.788	124.302	0.00	0.00		C
ATOM	6495	ND1	HSP	A	437	-0.899	100.163	125.028	0.00	0.00		N
ATOM	6496	CE1	HSP	A	437	-1.271	100.890	126.087	0.00	0.00		C
ATOM	6497	NE2	HSP	A	437	-2.064	101.872	125.640	0.00	0.00		N
ATOM	6498	HN	HSP	A	437	-0.397	102.312	121.474	0.00	0.00		H
ATOM	6499	HND1	HSP	A	437	-0.389	99.358	125.037	0.00	0.00		H
ATOM	6500	HNE2	HSP	A	437	-2.517	102.500	126.208	0.00	0.00		H
ATOM	6501	HCA	HSP	A	437	0.852	99.828	122.439	0.00	0.00		H
ATOM	6502	HC	HSP	A	437	-2.088	100.429	121.947	0.00	0.00		H
ATOM	6503	HC	HSP	A	437	-1.435	98.990	122.678	0.00	0.00		H
ATOM	6504	HCD2	HSP	A	437	-2.699	102.404	123.692	0.00	0.00		H
ATOM	6505	HCE1	HSP	A	437	-1.023	100.708	127.065	0.00	0.00		H
ATOM	6506	N	ASP	A	438	0.838	98.633	120.176	0.00	0.00		N
ATOM	6507	CA	ASP	A	438	0.772	97.701	119.069	0.00	0.00		C
ATOM	6508	C	ASP	A	438	1.823	98.014	118.062	0.00	0.00		C
ATOM	6509	O	ASP	A	438	1.625	97.902	116.830	0.00	0.00		O
ATOM	6510	CB	ASP	A	438	-0.652	97.383	118.516	0.00	0.00		C
ATOM	6511	CG	ASP	A	438	-1.560	96.892	119.566	0.00	0.00		C
ATOM	6512	OD1	ASP	A	438	-1.297	95.833	120.177	0.00	0.00		O
ATOM	6513	OD2	ASP	A	438	-2.598	97.514	119.879	0.00	0.00		O
ATOM	6514	HN	ASP	A	438	1.589	98.464	120.740	0.00	0.00		H
ATOM	6515	HCA	ASP	A	438	1.111	96.751	119.486	0.00	0.00		H
ATOM	6516	HC	ASP	A	438	-1.077	98.264	118.034	0.00	0.00		H
ATOM	6517	HC	ASP	A	438	-0.586	96.598	117.760	0.00	0.00		H
ATOM	6518	N	GLY	A	439	3.050	98.393	118.499	0.00	0.00		N
ATOM	6519	CA	GLY	A	439	4.113	98.927	117.691	0.00	0.00		C
ATOM	6520	C	GLY	A	439	3.667	99.809	116.591	0.00	0.00		C
ATOM	6521	O	GLY	A	439	2.830	100.704	116.849	0.00	0.00		O
ATOM	6522	HN	GLY	A	439	3.201	98.275	119.439	0.00	0.00		H
ATOM	6523	HCA	GLY	A	439	4.748	99.531	118.339	0.00	0.00		H
ATOM	6524	HCA	GLY	A	439	4.715	98.103	117.302	0.00	0.00		H
ATOM	6525	N	PHE	A	440	4.088	99.619	115.321	0.00	0.00		N
ATOM	6526	CA	PHE	A	440	3.688	100.420	114.196	0.00	0.00		C
ATOM	6527	C	PHE	A	440	2.272	100.233	113.759	0.00	0.00		C
ATOM	6528	O	PHE	A	440	1.867	100.977	112.833	0.00	0.00		O
ATOM	6529	CB	PHE	A	440	4.696	100.196	113.030	0.00	0.00		C
ATOM	6530	CG	PHE	A	440	6.031	100.821	113.244	0.00	0.00		C
ATOM	6531	CD1	PHE	A	440	6.153	102.231	113.283	0.00	0.00		C
ATOM	6532	CD2	PHE	A	440	7.204	100.040	113.359	0.00	0.00		C
ATOM	6533	CE1	PHE	A	440	7.412	102.845	113.406	0.00	0.00		C
ATOM	6534	CE2	PHE	A	440	8.466	100.656	113.461	0.00	0.00		C
ATOM	6535	CZ	PHE	A	440	8.572	102.056	113.483	0.00	0.00		C
ATOM	6536	HN	PHE	A	440	4.697	98.883	115.158	0.00	0.00		H
ATOM	6537	HCA	PHE	A	440	3.754	101.470	114.498	0.00	0.00		H
ATOM	6538	HC	PHE	A	440	4.787	99.123	112.862	0.00	0.00		H
ATOM	6539	HC	PHE	A	440	4.303	100.616	112.100	0.00	0.00		H
ATOM	6540	HCD1	PHE	A	440	5.323	102.824	113.204	0.00	0.00		H
ATOM	6541	HCD2	PHE	A	440	7.152	99.020	113.353	0.00	0.00		H
ATOM	6542	HCE1	PHE	A	440	7.482	103.864	113.432	0.00	0.00		H
ATOM	6543	HCE2	PHE	A	440	9.310	100.084	113.516	0.00	0.00		H
ATOM	6544	HCZ	PHE	A	440	9.490	102.498	113.554	0.00	0.00		H
ATOM	6545	N	GLU	A	441	1.383	99.408	114.372	0.00	0.00		N
ATOM	6546	CA	GLU	A	441	-0.036	99.453	114.151	0.00	0.00		C
ATOM	6547	C	GLU	A	441	-0.623	100.521	115.003	0.00	0.00		C
ATOM	6548	O	GLU	A	441	-1.701	101.058	114.652	0.00	0.00		O
ATOM	6549	CB	GLU	A	441	-0.745	98.110	114.485	0.00	0.00		C
ATOM	6550	CG	GLU	A	441	-0.318	96.896	113.616	0.00	0.00		C
ATOM	6551	CD	GLU	A	441	-1.065	95.654	113.904	0.00	0.00		C
ATOM	6552	OE1	GLU	A	441	-1.925	95.575	114.810	0.00	0.00		O
ATOM	6553	OE2	GLU	A	441	-0.855	94.621	113.235	0.00	0.00		O
ATOM	6554	HN	GLU	A	441	1.652	98.863	115.114	0.00	0.00		H
ATOM	6555	HCA	GLU	A	441	-0.245	99.677	113.101	0.00	0.00		H
ATOM	6556	HC	GLU	A	441	-0.584	97.864	115.535	0.00	0.00		H
ATOM	6557	HC	GLU	A	441	-1.821	98.249	114.346	0.00	0.00		H
ATOM	6558	HCG	GLU	A	441	-0.466	97.138	112.562	0.00	0.00		H

ATOM	6559	HCG	GLU	A	441	0.742	96.693	113.776	0.00	0.00	H
ATOM	6560	N	GLY	A	442	-0.022	100.938	116.146	0.00	0.00	N
ATOM	6561	CA	GLY	A	442	-0.606	101.839	117.086	0.00	0.00	C
ATOM	6562	C	GLY	A	442	-0.875	103.158	116.478	0.00	0.00	C
ATOM	6563	O	GLY	A	442	-2.072	103.532	116.518	0.00	0.00	O
ATOM	6564	HN	GLY	A	442	0.877	100.654	116.341	0.00	0.00	H
ATOM	6565	HCA	GLY	A	442	-1.527	101.392	117.473	0.00	0.00	H
ATOM	6566	HCA	GLY	A	442	0.072	101.963	117.926	0.00	0.00	H
ATOM	6567	N	PRO	A	443	0.073	103.898	115.818	0.00	0.00	N
ATOM	6568	CA	PRO	A	443	-0.216	105.089	115.071	0.00	0.00	C
ATOM	6569	C	PRO	A	443	-0.809	104.843	113.760	0.00	0.00	C
ATOM	6570	O	PRO	A	443	-0.951	105.814	113.033	0.00	0.00	O
ATOM	6571	CB	PRO	A	443	1.150	105.838	114.989	0.00	0.00	C
ATOM	6572	CG	PRO	A	443	2.132	104.966	115.780	0.00	0.00	C
ATOM	6573	CD	PRO	A	443	1.467	103.588	115.735	0.00	0.00	C
ATOM	6574	HCA	PRO	A	443	-0.918	105.710	115.635	0.00	0.00	H
ATOM	6575	HCB	PRO	A	443	1.508	105.930	113.960	0.00	0.00	H
ATOM	6576	HCB	PRO	A	443	1.088	106.841	115.419	0.00	0.00	H
ATOM	6577	HCD	PRO	A	443	1.682	103.090	114.785	0.00	0.00	H
ATOM	6578	HCD	PRO	A	443	1.832	102.969	116.546	0.00	0.00	H
ATOM	6579	HCG	PRO	A	443	3.127	104.951	115.327	0.00	0.00	H
ATOM	6580	HCG	PRO	A	443	2.208	105.322	116.812	0.00	0.00	H
ATOM	6581	N	ALA	A	444	-1.255	103.668	113.344	0.00	0.00	N
ATOM	6582	CA	ALA	A	444	-1.990	103.443	112.129	0.00	0.00	C
ATOM	6583	C	ALA	A	444	-3.432	103.439	112.487	0.00	0.00	C
ATOM	6584	O	ALA	A	444	-4.249	104.190	111.905	0.00	0.00	O
ATOM	6585	CB	ALA	A	444	-1.536	102.123	111.462	0.00	0.00	C
ATOM	6586	HN	ALA	A	444	-1.196	102.900	113.918	0.00	0.00	H
ATOM	6587	HCA	ALA	A	444	-1.799	104.235	111.402	0.00	0.00	H
ATOM	6588	HCB	ALA	A	444	-1.795	101.259	112.071	0.00	0.00	H
ATOM	6589	HCB	ALA	A	444	-2.024	102.010	110.492	0.00	0.00	H
ATOM	6590	HCB	ALA	A	444	-0.454	102.132	111.310	0.00	0.00	H
ATOM	6591	N	LYS	A	445	-3.829	102.641	113.499	0.00	0.00	N
ATOM	6592	CA	LYS	A	445	-5.149	102.526	114.034	0.00	0.00	C
ATOM	6593	C	LYS	A	445	-5.549	103.699	114.870	0.00	0.00	C
ATOM	6594	O	LYS	A	445	-6.665	104.225	114.646	0.00	0.00	O
ATOM	6595	CB	LYS	A	445	-5.199	101.196	114.835	0.00	0.00	C
ATOM	6596	CG	LYS	A	445	-5.042	99.919	113.960	0.00	0.00	C
ATOM	6597	CD	LYS	A	445	-4.969	98.621	114.810	0.00	0.00	C
ATOM	6598	CE	LYS	A	445	-4.965	97.343	113.938	0.00	0.00	C
ATOM	6599	NZ	LYS	A	445	-4.739	96.145	114.752	0.00	0.00	N
ATOM	6600	HN	LYS	A	445	-3.141	102.112	113.905	0.00	0.00	H
ATOM	6601	HNZ	LYS	A	445	-5.125	96.270	115.688	0.00	0.00	H
ATOM	6602	HNZ	LYS	A	445	-5.179	95.339	114.310	0.00	0.00	H
ATOM	6603	HNZ	LYS	A	445	-3.752	95.965	114.816	0.00	0.00	H
ATOM	6604	HCA	LYS	A	445	-5.858	102.433	113.203	0.00	0.00	H
ATOM	6605	HCB	LYS	A	445	-4.408	101.213	115.591	0.00	0.00	H
ATOM	6606	HCB	LYS	A	445	-6.161	101.132	115.349	0.00	0.00	H
ATOM	6607	HCD	LYS	A	445	-4.064	98.648	115.423	0.00	0.00	H
ATOM	6608	HCD	LYS	A	445	-5.830	98.580	115.483	0.00	0.00	H
ATOM	6609	HCE	LYS	A	445	-5.928	97.245	113.433	0.00	0.00	H
ATOM	6610	HCE	LYS	A	445	-4.180	97.398	113.180	0.00	0.00	H
ATOM	6611	HCG	LYS	A	445	-5.893	99.857	113.274	0.00	0.00	H
ATOM	6612	HCG	LYS	A	445	-4.131	99.992	113.360	0.00	0.00	H
ATOM	6613	N	GLY	A	446	-4.760	104.206	115.853	0.00	0.00	N
ATOM	6614	CA	GLY	A	446	-5.085	105.274	116.764	0.00	0.00	C
ATOM	6615	C	GLY	A	446	-4.920	104.922	118.195	0.00	0.00	C
ATOM	6616	O	GLY	A	446	-5.471	105.656	119.053	0.00	0.00	O
ATOM	6617	HN	GLY	A	446	-3.882	103.849	115.971	0.00	0.00	H
ATOM	6618	HCA	GLY	A	446	-4.420	106.113	116.553	0.00	0.00	H
ATOM	6619	HCA	GLY	A	446	-6.110	105.625	116.618	0.00	0.00	H
ATOM	6620	N	GLN	A	447	-4.117	103.906	118.603	0.00	0.00	N
ATOM	6621	CA	GLN	A	447	-4.013	103.429	119.967	0.00	0.00	C
ATOM	6622	C	GLN	A	447	-2.902	104.114	120.635	0.00	0.00	C
ATOM	6623	O	GLN	A	447	-1.896	103.534	121.038	0.00	0.00	O
ATOM	6624	CB	GLN	A	447	-3.993	101.875	120.072	0.00	0.00	C
ATOM	6625	CG	GLN	A	447	-5.368	101.160	119.934	0.00	0.00	C
ATOM	6626	CD	GLN	A	447	-5.847	101.015	118.555	0.00	0.00	C
ATOM	6627	NE2	GLN	A	447	-6.931	101.657	118.110	0.00	0.00	N
ATOM	6628	OE1	GLN	A	447	-5.266	100.241	117.769	0.00	0.00	O
ATOM	6629	HN	GLN	A	447	-3.510	103.571	117.937	0.00	0.00	H
ATOM	6630	HNE2	GLN	A	447	-7.418	102.254	118.695	0.00	0.00	H
ATOM	6631	HNE2	GLN	A	447	-7.228	101.511	117.202	0.00	0.00	H
ATOM	6632	HCA	GLN	A	447	-4.906	103.725	120.531	0.00	0.00	H
ATOM	6633	HCB	GLN	A	447	-3.260	101.451	119.381	0.00	0.00	H
ATOM	6634	HCB	GLN	A	447	-3.671	101.640	121.084	0.00	0.00	H
ATOM	6635	HCG	GLN	A	447	-5.281	100.149	120.344	0.00	0.00	H
ATOM	6636	HCG	GLN	A	447	-6.117	101.679	120.535	0.00	0.00	H
ATOM	6637	N	ILE	A	448	-3.079	105.412	120.785	0.00	0.00	N
ATOM	6638	CA	ILE	A	448	-2.226	106.382	121.414	0.00	0.00	C

ATOM	6639	C	ILE	A	448	-2.871	106.850	122.679	0.00	0.00	C
ATOM	6640	O	ILE	A	448	-4.007	107.378	122.618	0.00	0.00	O
ATOM	6641	CB	ILE	A	448	-1.973	107.549	120.392	0.00	0.00	C
ATOM	6642	CG1	ILE	A	448	-1.212	107.063	119.110	0.00	0.00	C
ATOM	6643	CG2	ILE	A	448	-1.211	108.737	121.048	0.00	0.00	C
ATOM	6644	CD1	ILE	A	448	-1.409	107.970	117.872	0.00	0.00	C
ATOM	6645	HN	ILE	A	448	-3.889	105.718	120.362	0.00	0.00	H
ATOM	6646	HCA	ILE	A	448	-1.257	105.938	121.659	0.00	0.00	H
ATOM	6647	HCB	ILE	A	448	-2.954	107.926	120.080	0.00	0.00	H
ATOM	6648	HCD1	ILE	A	448	-2.448	107.930	117.541	0.00	0.00	H
ATOM	6649	HCD1	ILE	A	448	-1.148	109.004	118.087	0.00	0.00	H
ATOM	6650	HCD1	ILE	A	448	-0.770	107.628	117.059	0.00	0.00	H
ATOM	6651	HCG1	ILE	A	448	-0.144	106.985	119.324	0.00	0.00	H
ATOM	6652	HCG1	ILE	A	448	-1.547	106.064	118.820	0.00	0.00	H
ATOM	6653	HCG2	ILE	A	448	-1.761	109.144	121.898	0.00	0.00	H
ATOM	6654	HCG2	ILE	A	448	-0.228	108.414	121.393	0.00	0.00	H
ATOM	6655	HCG2	ILE	A	448	-1.085	109.551	120.337	0.00	0.00	H
ATOM	6656	N	GLU	A	449	-2.224	106.754	123.868	0.00	0.00	N
ATOM	6657	CA	GLU	A	449	-2.655	107.326	125.130	0.00	0.00	C
ATOM	6658	C	GLU	A	449	-1.675	108.317	125.662	0.00	0.00	C
ATOM	6659	O	GLU	A	449	-0.546	108.392	125.135	0.00	0.00	O
ATOM	6660	CB	GLU	A	449	-2.883	106.198	126.176	0.00	0.00	C
ATOM	6661	CG	GLU	A	449	-4.043	105.230	125.811	0.00	0.00	C
ATOM	6662	CD	GLU	A	449	-4.379	104.330	126.925	0.00	0.00	C
ATOM	6663	OE1	GLU	A	449	-3.509	103.579	127.417	0.00	0.00	O
ATOM	6664	OE2	GLU	A	449	-5.527	104.297	127.415	0.00	0.00	O
ATOM	6665	HN	GLU	A	449	-1.385	106.289	123.852	0.00	0.00	H
ATOM	6666	HCA	GLU	A	449	-3.595	107.872	125.005	0.00	0.00	H
ATOM	6667	HCB	GLU	A	449	-1.957	105.625	126.295	0.00	0.00	H
ATOM	6668	HCB	GLU	A	449	-3.117	106.652	127.145	0.00	0.00	H
ATOM	6669	HCG	GLU	A	449	-4.931	105.806	125.540	0.00	0.00	H
ATOM	6670	HCG	GLU	A	449	-3.760	104.623	124.950	0.00	0.00	H
ATOM	6671	N	GLU	A	450	-1.979	109.106	126.723	0.00	0.00	N
ATOM	6672	CA	GLU	A	450	-1.132	110.083	127.370	0.00	0.00	C
ATOM	6673	C	GLU	A	450	-0.738	109.576	128.716	0.00	0.00	C
ATOM	6674	O	GLU	A	450	-1.646	109.220	129.505	0.00	0.00	O
ATOM	6675	CB	GLU	A	450	-1.904	111.437	127.420	0.00	0.00	C
ATOM	6676	CG	GLU	A	450	-1.088	112.623	128.014	0.00	0.00	C
ATOM	6677	CD	GLU	A	450	-1.817	113.905	127.992	0.00	0.00	C
ATOM	6678	OE1	GLU	A	450	-2.139	114.456	126.915	0.00	0.00	O
ATOM	6679	OE2	GLU	A	450	-2.109	114.503	129.049	0.00	0.00	O
ATOM	6680	HN	GLU	A	450	-2.864	108.989	127.100	0.00	0.00	H
ATOM	6681	HCA	GLU	A	450	-0.225	110.252	126.789	0.00	0.00	H
ATOM	6682	HCB	GLU	A	450	-2.197	111.699	126.398	0.00	0.00	H
ATOM	6683	HCB	GLU	A	450	-2.822	111.310	128.003	0.00	0.00	H
ATOM	6684	HCG	GLU	A	450	-0.817	112.390	129.047	0.00	0.00	H
ATOM	6685	HCG	GLU	A	450	-0.164	112.758	127.452	0.00	0.00	H
ATOM	6686	N	ALA	A	451	0.563	109.476	129.095	0.00	0.00	N
ATOM	6687	CA	ALA	A	451	1.047	108.813	130.280	0.00	0.00	C
ATOM	6688	C	ALA	A	451	1.550	109.748	131.325	0.00	0.00	C
ATOM	6689	O	ALA	A	451	2.310	110.691	131.001	0.00	0.00	O
ATOM	6690	CB	ALA	A	451	2.160	107.838	129.830	0.00	0.00	C
ATOM	6691	HN	ALA	A	451	1.241	109.844	128.522	0.00	0.00	H
ATOM	6692	HCA	ALA	A	451	0.259	108.196	130.724	0.00	0.00	H
ATOM	6693	HCB	ALA	A	451	2.981	108.374	129.348	0.00	0.00	H
ATOM	6694	HCB	ALA	A	451	2.560	107.285	130.682	0.00	0.00	H
ATOM	6695	HCB	ALA	A	451	1.745	107.120	129.122	0.00	0.00	H
ATOM	6696	N	GLY	A	452	1.224	109.534	132.625	0.00	0.00	N
ATOM	6697	CA	GLY	A	452	1.684	110.272	133.771	0.00	0.00	C
ATOM	6698	C	GLY	A	452	2.587	109.501	134.661	0.00	0.00	C
ATOM	6699	O	GLY	A	452	2.837	108.297	134.430	0.00	0.00	O
ATOM	6700	HN	GLY	A	452	0.637	108.784	132.799	0.00	0.00	H
ATOM	6701	HCA	GLY	A	452	2.199	111.187	133.469	0.00	0.00	H
ATOM	6702	HCA	GLY	A	452	0.808	110.568	134.351	0.00	0.00	H
ATOM	6703	N	TRP	A	453	3.135	110.105	135.741	0.00	0.00	N
ATOM	6704	CA	TRP	A	453	4.140	109.578	136.641	0.00	0.00	C
ATOM	6705	C	TRP	A	453	3.890	108.176	137.086	0.00	0.00	C
ATOM	6706	O	TRP	A	453	4.797	107.307	137.025	0.00	0.00	O
ATOM	6707	CB	TRP	A	453	4.228	110.547	137.867	0.00	0.00	C
ATOM	6708	CG	TRP	A	453	5.541	110.595	138.559	0.00	0.00	C
ATOM	6709	CD1	TRP	A	453	5.847	110.128	139.846	0.00	0.00	C
ATOM	6710	CD2	TRP	A	453	6.720	111.177	138.088	0.00	0.00	C
ATOM	6711	CE2	TRP	A	453	7.686	111.011	139.076	0.00	0.00	C
ATOM	6712	CE3	TRP	A	453	7.040	111.847	136.892	0.00	0.00	C
ATOM	6713	NE1	TRP	A	453	7.136	110.405	140.126	0.00	0.00	N
ATOM	6714	CZ2	TRP	A	453	9.008	111.446	138.907	0.00	0.00	C
ATOM	6715	CZ3	TRP	A	453	8.362	112.314	136.715	0.00	0.00	C
ATOM	6716	CH2	TRP	A	453	9.344	112.098	137.706	0.00	0.00	C
ATOM	6717	HN	TRP	A	453	2.861	111.023	135.885	0.00	0.00	H
ATOM	6718	HNE1	TRP	A	453	7.636	110.250	140.932	0.00	0.00	H

ATOM	6719	HCA	TRP	A	453	5.091	109.604	136.100	0.00	0.00	H
ATOM	6720	HCB	TRP	A	453	4.022	111.563	137.536	0.00	0.00	H
ATOM	6721	HCB	TRP	A	453	3.447	110.303	138.593	0.00	0.00	H
ATOM	6722	HCD1	TRP	A	453	5.193	109.663	140.479	0.00	0.00	H
ATOM	6723	HCE3	TRP	A	453	6.335	111.995	136.172	0.00	0.00	H
ATOM	6724	HCH2	TRP	A	453	10.301	112.413	137.552	0.00	0.00	H
ATOM	6725	HCZ2	TRP	A	453	9.708	111.280	139.629	0.00	0.00	H
ATOM	6726	HCZ3	TRP	A	453	8.618	112.815	135.867	0.00	0.00	H
ATOM	6727	N	SER	A	454	2.653	107.871	137.538	0.00	0.00	N
ATOM	6728	CA	SER	A	454	2.202	106.606	138.035	0.00	0.00	C
ATOM	6729	C	SER	A	454	1.784	105.639	136.986	0.00	0.00	C
ATOM	6730	O	SER	A	454	1.604	104.450	137.349	0.00	0.00	O
ATOM	6731	CB	SER	A	454	1.027	106.876	139.010	0.00	0.00	C
ATOM	6732	OG	SER	A	454	-0.069	107.498	138.336	0.00	0.00	O
ATOM	6733	HN	SER	A	454	1.996	108.584	137.504	0.00	0.00	H
ATOM	6734	HCA	SER	A	454	3.012	106.145	138.609	0.00	0.00	H
ATOM	6735	HCB	SER	A	454	0.684	105.940	139.461	0.00	0.00	H
ATOM	6736	HCB	SER	A	454	1.362	107.535	139.815	0.00	0.00	H
ATOM	6737	HOG	SER	A	454	-0.772	107.607	139.016	0.00	0.00	H
ATOM	6738	N	TYR	A	455	1.668	105.951	135.668	0.00	0.00	N
ATOM	6739	CA	TYR	A	455	1.248	105.032	134.632	0.00	0.00	C
ATOM	6740	C	TYR	A	455	2.195	103.887	134.536	0.00	0.00	C
ATOM	6741	O	TYR	A	455	1.805	102.777	134.109	0.00	0.00	O
ATOM	6742	CB	TYR	A	455	1.122	105.830	133.295	0.00	0.00	C
ATOM	6743	CG	TYR	A	455	0.525	105.102	132.136	0.00	0.00	C
ATOM	6744	CD1	TYR	A	455	-0.797	105.368	131.702	0.00	0.00	C
ATOM	6745	CD2	TYR	A	455	1.288	104.158	131.409	0.00	0.00	C
ATOM	6746	CE1	TYR	A	455	-1.341	104.706	130.582	0.00	0.00	C
ATOM	6747	CE2	TYR	A	455	0.741	103.485	130.303	0.00	0.00	C
ATOM	6748	CZ	TYR	A	455	-0.573	103.756	129.885	0.00	0.00	C
ATOM	6749	OH	TYR	A	455	-1.064	103.095	128.812	0.00	0.00	O
ATOM	6750	HN	TYR	A	455	1.973	106.809	135.368	0.00	0.00	H
ATOM	6751	HCA	TYR	A	455	0.259	104.644	134.898	0.00	0.00	H
ATOM	6752	HCB	TYR	A	455	0.519	106.718	133.501	0.00	0.00	H
ATOM	6753	HCB	TYR	A	455	2.110	106.193	132.998	0.00	0.00	H
ATOM	6754	HCD1	TYR	A	455	-1.376	106.050	132.197	0.00	0.00	H
ATOM	6755	HCD2	TYR	A	455	2.253	103.955	131.676	0.00	0.00	H
ATOM	6756	HCE1	TYR	A	455	-2.295	104.912	130.277	0.00	0.00	H
ATOM	6757	HCE2	TYR	A	455	1.304	102.802	129.795	0.00	0.00	H
ATOM	6758	HOH	TYR	A	455	-1.927	103.296	128.418	0.00	0.00	H
ATOM	6759	N	VAL	A	456	3.463	104.072	134.965	0.00	0.00	N
ATOM	6760	CA	VAL	A	456	4.544	103.140	134.961	0.00	0.00	C
ATOM	6761	C	VAL	A	456	4.928	102.712	136.341	0.00	0.00	C
ATOM	6762	O	VAL	A	456	5.965	102.018	136.495	0.00	0.00	O
ATOM	6763	CB	VAL	A	456	5.706	103.802	134.142	0.00	0.00	C
ATOM	6764	CG1	VAL	A	456	5.315	104.005	132.649	0.00	0.00	C
ATOM	6765	CG2	VAL	A	456	6.201	105.152	134.742	0.00	0.00	C
ATOM	6766	HN	VAL	A	456	3.666	104.952	135.311	0.00	0.00	H
ATOM	6767	HCA	VAL	A	456	4.249	102.229	134.445	0.00	0.00	H
ATOM	6768	HCB	VAL	A	456	6.547	103.104	134.151	0.00	0.00	H
ATOM	6769	HCG1	VAL	A	456	4.969	103.068	132.213	0.00	0.00	H
ATOM	6770	HCG1	VAL	A	456	4.519	104.744	132.551	0.00	0.00	H
ATOM	6771	HCG1	VAL	A	456	6.168	104.348	132.067	0.00	0.00	H
ATOM	6772	HCG2	VAL	A	456	5.421	105.914	134.693	0.00	0.00	H
ATOM	6773	HCG2	VAL	A	456	6.500	105.025	135.783	0.00	0.00	H
ATOM	6774	HCG2	VAL	A	456	7.059	105.526	134.184	0.00	0.00	H
ATOM	6775	N	GLY	A	457	4.181	103.021	137.436	0.00	0.00	N
ATOM	6776	CA	GLY	A	457	4.561	102.754	138.797	0.00	0.00	C
ATOM	6777	C	GLY	A	457	4.959	101.355	139.094	0.00	0.00	C
ATOM	6778	O	GLY	A	457	4.101	100.445	139.035	0.00	0.00	O
ATOM	6779	HN	GLY	A	457	3.348	103.485	137.311	0.00	0.00	H
ATOM	6780	HCA	GLY	A	457	5.376	103.434	139.054	0.00	0.00	H
ATOM	6781	HCA	GLY	A	457	3.718	103.007	139.442	0.00	0.00	H
ATOM	6782	N	GLY	A	458	6.247	101.078	139.407	0.00	0.00	N
ATOM	6783	CA	GLY	A	458	6.789	99.781	139.711	0.00	0.00	C
ATOM	6784	C	GLY	A	458	7.136	98.930	138.550	0.00	0.00	C
ATOM	6785	O	GLY	A	458	7.686	97.820	138.767	0.00	0.00	O
ATOM	6786	HN	GLY	A	458	6.862	101.826	139.403	0.00	0.00	H
ATOM	6787	HCA	GLY	A	458	7.700	99.939	140.291	0.00	0.00	H
ATOM	6788	HCA	GLY	A	458	6.091	99.228	140.346	0.00	0.00	H
ATOM	6789	N	TRP	A	459	6.891	99.316	137.273	0.00	0.00	N
ATOM	6790	CA	TRP	A	459	7.042	98.458	136.127	0.00	0.00	C
ATOM	6791	C	TRP	A	459	8.399	97.880	135.923	0.00	0.00	C
ATOM	6792	O	TRP	A	459	8.505	96.808	135.281	0.00	0.00	O
ATOM	6793	CB	TRP	A	459	6.602	99.244	134.861	0.00	0.00	C
ATOM	6794	CG	TRP	A	459	5.144	99.382	134.651	0.00	0.00	C
ATOM	6795	CD1	TRP	A	459	4.092	99.163	135.548	0.00	0.00	C
ATOM	6796	CD2	TRP	A	459	4.541	99.744	133.449	0.00	0.00	C
ATOM	6797	CE2	TRP	A	459	3.162	99.687	133.641	0.00	0.00	C
ATOM	6798	CE3	TRP	A	459	5.089	100.128	132.211	0.00	0.00	C

ATOM	6799	NE1	TRP	A	459	2.919	99.303	134.903	0.00	0.00	N
ATOM	6800	CZ2	TRP	A	459	2.271	100.020	132.609	0.00	0.00	C
ATOM	6801	CZ3	TRP	A	459	4.204	100.471	131.168	0.00	0.00	C
ATOM	6802	CH2	TRP	A	459	2.805	100.418	131.365	0.00	0.00	C
ATOM	6803	HN	TRP	A	459	6.555	100.203	137.107	0.00	0.00	H
ATOM	6804	HNE1	TRP	A	459	2.036	99.201	135.297	0.00	0.00	H
ATOM	6805	HCA	TRP	A	459	6.366	97.607	136.266	0.00	0.00	H
ATOM	6806	HCB	TRP	A	459	7.063	100.235	134.845	0.00	0.00	H
ATOM	6807	HCB	TRP	A	459	6.975	98.714	133.992	0.00	0.00	H
ATOM	6808	HCD1	TRP	A	459	4.186	98.915	136.535	0.00	0.00	H
ATOM	6809	HCE3	TRP	A	459	6.100	100.171	132.068	0.00	0.00	H
ATOM	6810	HCH2	TRP	A	459	2.175	100.661	130.600	0.00	0.00	H
ATOM	6811	HCZ2	TRP	A	459	1.262	99.981	132.759	0.00	0.00	H
ATOM	6812	HCZ3	TRP	A	459	4.581	100.757	130.265	0.00	0.00	H
ATOM	6813	N	THR	A	460	9.498	98.487	136.422	0.00	0.00	N
ATOM	6814	CA	THR	A	460	10.854	98.032	136.253	0.00	0.00	C
ATOM	6815	C	THR	A	460	11.114	96.649	136.741	0.00	0.00	C
ATOM	6816	O	THR	A	460	12.141	96.064	136.323	0.00	0.00	O
ATOM	6817	CB	THR	A	460	11.840	99.087	136.841	0.00	0.00	C
ATOM	6818	CG2	THR	A	460	11.631	99.397	138.344	0.00	0.00	C
ATOM	6819	OG1	THR	A	460	13.200	98.734	136.608	0.00	0.00	O
ATOM	6820	HN	THR	A	460	9.349	99.293	136.935	0.00	0.00	H
ATOM	6821	HCA	THR	A	460	11.029	98.009	135.173	0.00	0.00	H
ATOM	6822	HCB	THR	A	460	11.703	100.012	136.281	0.00	0.00	H
ATOM	6823	HCG2	THR	A	460	10.676	99.897	138.510	0.00	0.00	H
ATOM	6824	HCG2	THR	A	460	11.641	98.476	138.929	0.00	0.00	H
ATOM	6825	HCG2	THR	A	460	12.426	100.050	138.709	0.00	0.00	H
ATOM	6826	HOG1	THR	A	460	13.491	98.293	137.418	0.00	0.00	H
ATOM	6827	N	GLY	A	461	10.253	95.988	137.557	0.00	0.00	N
ATOM	6828	CA	GLY	A	461	10.386	94.594	137.903	0.00	0.00	C
ATOM	6829	C	GLY	A	461	9.858	93.625	136.910	0.00	0.00	C
ATOM	6830	O	GLY	A	461	10.209	92.417	136.985	0.00	0.00	O
ATOM	6831	HN	GLY	A	461	9.485	96.480	137.890	0.00	0.00	H
ATOM	6832	HCA	GLY	A	461	11.434	94.363	138.091	0.00	0.00	H
ATOM	6833	HCA	GLY	A	461	9.854	94.425	138.840	0.00	0.00	H
ATOM	6834	N	GLN	A	462	8.979	94.017	135.955	0.00	0.00	N
ATOM	6835	CA	GLN	A	462	8.179	93.142	135.137	0.00	0.00	C
ATOM	6836	C	GLN	A	462	8.698	93.018	133.775	0.00	0.00	C
ATOM	6837	O	GLN	A	462	9.526	93.818	133.351	0.00	0.00	O
ATOM	6838	CB	GLN	A	462	6.703	93.648	135.167	0.00	0.00	C
ATOM	6839	CG	GLN	A	462	6.115	93.747	136.608	0.00	0.00	C
ATOM	6840	CD	GLN	A	462	4.679	94.073	136.640	0.00	0.00	C
ATOM	6841	NE2	GLN	A	462	3.752	93.207	136.224	0.00	0.00	N
ATOM	6842	OE1	GLN	A	462	4.267	95.184	137.039	0.00	0.00	O
ATOM	6843	HN	GLN	A	462	8.852	94.957	135.809	0.00	0.00	H
ATOM	6844	HNE2	GLN	A	462	4.013	92.335	135.895	0.00	0.00	H
ATOM	6845	HNE2	GLN	A	462	2.816	93.452	136.267	0.00	0.00	H
ATOM	6846	HCA	GLN	A	462	8.183	92.133	135.565	0.00	0.00	H
ATOM	6847	HCB	GLN	A	462	6.651	94.633	134.693	0.00	0.00	H
ATOM	6848	HCB	GLN	A	462	6.084	92.964	134.578	0.00	0.00	H
ATOM	6849	HCG	GLN	A	462	6.257	92.802	137.136	0.00	0.00	H
ATOM	6850	HCG	GLN	A	462	6.657	94.518	137.162	0.00	0.00	H
ATOM	6851	N	GLY	A	463	8.270	92.028	133.006	0.00	0.00	N
ATOM	6852	CA	GLY	A	463	8.805	91.637	131.729	0.00	0.00	C
ATOM	6853	C	GLY	A	463	7.903	91.750	130.564	0.00	0.00	C
ATOM	6854	O	GLY	A	463	6.740	92.211	130.659	0.00	0.00	O
ATOM	6855	HN	GLY	A	463	7.549	91.484	133.361	0.00	0.00	H
ATOM	6856	HCA	GLY	A	463	9.693	92.223	131.491	0.00	0.00	H
ATOM	6857	HCA	GLY	A	463	9.116	90.595	131.818	0.00	0.00	H
ATOM	6858	N	GLY	A	464	8.403	91.407	129.356	0.00	0.00	N
ATOM	6859	CA	GLY	A	464	7.758	91.595	128.098	0.00	0.00	C
ATOM	6860	C	GLY	A	464	7.525	93.013	127.745	0.00	0.00	C
ATOM	6861	O	GLY	A	464	8.417	93.857	127.993	0.00	0.00	O
ATOM	6862	HN	GLY	A	464	9.295	91.040	129.327	0.00	0.00	H
ATOM	6863	HCA	GLY	A	464	8.412	91.168	127.335	0.00	0.00	H
ATOM	6864	HCA	GLY	A	464	6.820	91.038	128.100	0.00	0.00	H
ATOM	6865	N	SER	A	465	6.365	93.375	127.147	0.00	0.00	N
ATOM	6866	CA	SER	A	465	5.961	94.718	126.821	0.00	0.00	C
ATOM	6867	C	SER	A	465	4.627	94.941	127.414	0.00	0.00	C
ATOM	6868	O	SER	A	465	3.632	94.387	126.898	0.00	0.00	O
ATOM	6869	CB	SER	A	465	5.920	94.929	125.279	0.00	0.00	C
ATOM	6870	OG	SER	A	465	5.113	96.043	124.856	0.00	0.00	O
ATOM	6871	HN	SER	A	465	5.740	92.668	126.939	0.00	0.00	H
ATOM	6872	HCA	SER	A	465	6.652	95.459	127.236	0.00	0.00	H
ATOM	6873	HCB	SER	A	465	6.937	95.060	124.902	0.00	0.00	H
ATOM	6874	HCB	SER	A	465	5.511	94.034	124.817	0.00	0.00	H
ATOM	6875	HOG	SER	A	465	5.716	96.800	124.904	0.00	0.00	H
ATOM	6876	N	LYS	A	466	4.456	95.755	128.474	0.00	0.00	N
ATOM	6877	CA	LYS	A	466	3.189	96.246	128.941	0.00	0.00	C
ATOM	6878	C	LYS	A	466	2.425	96.995	127.908	0.00	0.00	C

ATOM	6879	O	LYS	A	466	1.190	97.141	128.074	0.00	0.00	O
ATOM	6880	CB	LYS	A	466	3.452	97.198	130.142	0.00	0.00	C
ATOM	6881	CG	LYS	A	466	3.776	96.480	131.479	0.00	0.00	C
ATOM	6882	CD	LYS	A	466	2.498	96.147	132.300	0.00	0.00	C
ATOM	6883	CE	LYS	A	466	2.789	95.516	133.677	0.00	0.00	C
ATOM	6884	NZ	LYS	A	466	3.668	96.373	134.478	0.00	0.00	N
ATOM	6885	HN	LYS	A	466	5.243	96.012	128.952	0.00	0.00	H
ATOM	6886	HNZ	LYS	A	466	3.288	97.302	134.592	0.00	0.00	H
ATOM	6887	HNZ	LYS	A	466	3.824	95.958	135.377	0.00	0.00	H
ATOM	6888	HNZ	LYS	A	466	4.569	96.454	134.009	0.00	0.00	H
ATOM	6889	HCA	LYS	A	466	2.581	95.395	129.265	0.00	0.00	H
ATOM	6890	HCB	LYS	A	466	4.285	97.860	129.881	0.00	0.00	H
ATOM	6891	HCB	LYS	A	466	2.586	97.846	130.302	0.00	0.00	H
ATOM	6892	HCD	LYS	A	466	1.916	97.058	132.461	0.00	0.00	H
ATOM	6893	HCD	LYS	A	466	1.874	95.455	131.729	0.00	0.00	H
ATOM	6894	HCE	LYS	A	466	1.852	95.367	134.218	0.00	0.00	H
ATOM	6895	HCE	LYS	A	466	3.269	94.543	133.543	0.00	0.00	H
ATOM	6896	HCG	LYS	A	466	4.348	95.567	131.291	0.00	0.00	H
ATOM	6897	HCG	LYS	A	466	4.413	97.151	132.059	0.00	0.00	H
ATOM	6898	N	LEU	A	467	3.044	97.563	126.844	0.00	0.00	N
ATOM	6899	CA	LEU	A	467	2.400	98.434	125.916	0.00	0.00	C
ATOM	6900	C	LEU	A	467	1.715	97.659	124.858	0.00	0.00	C
ATOM	6901	O	LEU	A	467	0.466	97.709	124.787	0.00	0.00	O
ATOM	6902	CB	LEU	A	467	3.387	99.471	125.298	0.00	0.00	C
ATOM	6903	CG	LEU	A	467	4.189	100.372	126.291	0.00	0.00	C
ATOM	6904	CD1	LEU	A	467	4.859	101.540	125.514	0.00	0.00	C
ATOM	6905	CD2	LEU	A	467	3.326	100.908	127.465	0.00	0.00	C
ATOM	6906	HN	LEU	A	467	3.970	97.341	126.683	0.00	0.00	H
ATOM	6907	HCA	LEU	A	467	1.634	99.012	126.443	0.00	0.00	H
ATOM	6908	HCB	LEU	A	467	4.110	98.949	124.665	0.00	0.00	H
ATOM	6909	HCB	LEU	A	467	2.800	100.122	124.641	0.00	0.00	H
ATOM	6910	HCD1	LEU	A	467	4.108	102.205	125.083	0.00	0.00	H
ATOM	6911	HCD1	LEU	A	467	5.497	102.127	126.174	0.00	0.00	H
ATOM	6912	HCD1	LEU	A	467	5.478	101.156	124.703	0.00	0.00	H
ATOM	6913	HCD2	LEU	A	467	3.162	100.117	128.198	0.00	0.00	H
ATOM	6914	HCD2	LEU	A	467	3.809	101.743	127.972	0.00	0.00	H
ATOM	6915	HCD2	LEU	A	467	2.356	101.240	127.109	0.00	0.00	H
ATOM	6916	HCG	LEU	A	467	4.993	99.767	126.725	0.00	0.00	H
ATOM	6917	N	GLY	A	468	2.407	96.943	123.947	0.00	0.00	N
ATOM	6918	CA	GLY	A	468	1.851	96.576	122.674	0.00	0.00	C
ATOM	6919	C	GLY	A	468	2.869	96.682	121.613	0.00	0.00	C
ATOM	6920	O	GLY	A	468	3.360	97.809	121.353	0.00	0.00	O
ATOM	6921	HN	GLY	A	468	3.312	96.696	124.173	0.00	0.00	H
ATOM	6922	HCA	GLY	A	468	1.434	95.574	122.742	0.00	0.00	H
ATOM	6923	HCA	GLY	A	468	1.016	97.220	122.396	0.00	0.00	H
ATOM	6924	N	SER	A	469	3.226	95.576	120.927	0.00	0.00	N
ATOM	6925	CA	SER	A	469	4.324	95.446	120.017	0.00	0.00	C
ATOM	6926	C	SER	A	469	4.086	94.452	118.942	0.00	0.00	C
ATOM	6927	O	SER	A	469	3.760	93.286	119.254	0.00	0.00	O
ATOM	6928	CB	SER	A	469	5.568	95.012	120.823	0.00	0.00	C
ATOM	6929	OG	SER	A	469	6.740	95.133	120.026	0.00	0.00	O
ATOM	6930	HN	SER	A	469	2.721	94.793	121.124	0.00	0.00	H
ATOM	6931	HCA	SER	A	469	4.529	96.409	119.554	0.00	0.00	H
ATOM	6932	HCB	SER	A	469	5.685	95.637	121.710	0.00	0.00	H
ATOM	6933	HCB	SER	A	469	5.459	93.976	121.150	0.00	0.00	H
ATOM	6934	HOG	SER	A	469	6.758	96.073	119.818	0.00	0.00	H
ATOM	6935	N	LYS	A	470	4.274	94.787	117.647	0.00	0.00	N
ATOM	6936	CA	LYS	A	470	4.213	93.899	116.515	0.00	0.00	C
ATOM	6937	C	LYS	A	470	5.487	93.933	115.734	0.00	0.00	C
ATOM	6938	O	LYS	A	470	6.380	94.765	116.033	0.00	0.00	O
ATOM	6939	CB	LYS	A	470	2.997	94.326	115.640	0.00	0.00	C
ATOM	6940	CG	LYS	A	470	1.613	94.334	116.352	0.00	0.00	C
ATOM	6941	CD	LYS	A	470	1.032	92.928	116.667	0.00	0.00	C
ATOM	6942	CE	LYS	A	470	-0.428	93.010	117.178	0.00	0.00	C
ATOM	6943	NZ	LYS	A	470	-1.018	91.677	117.332	0.00	0.00	N
ATOM	6944	HN	LYS	A	470	4.489	95.713	117.466	0.00	0.00	H
ATOM	6945	HNZ	LYS	A	470	-0.658	91.231	118.156	0.00	0.00	H
ATOM	6946	HNZ	LYS	A	470	-2.029	91.764	117.429	0.00	0.00	H
ATOM	6947	HNZ	LYS	A	470	-0.807	91.105	116.514	0.00	0.00	H
ATOM	6948	HCA	LYS	A	470	4.071	92.861	116.832	0.00	0.00	H
ATOM	6949	HCB	LYS	A	470	3.182	95.338	115.263	0.00	0.00	H
ATOM	6950	HCB	LYS	A	470	2.927	93.668	114.771	0.00	0.00	H
ATOM	6951	HCD	LYS	A	470	1.053	92.322	115.757	0.00	0.00	H
ATOM	6952	HCD	LYS	A	470	1.649	92.436	117.422	0.00	0.00	H
ATOM	6953	HCE	LYS	A	470	-0.465	93.530	118.139	0.00	0.00	H
ATOM	6954	HCE	LYS	A	470	-1.040	93.562	116.462	0.00	0.00	H
ATOM	6955	HCG	LYS	A	470	1.665	94.920	117.272	0.00	0.00	H
ATOM	6956	HCG	LYS	A	470	0.917	94.851	115.689	0.00	0.00	H
ATOM	6957	N	ARG	A	471	5.658	93.095	114.676	0.00	0.00	N
ATOM	6958	CA	ARG	A	471	6.755	93.119	113.735	0.00	0.00	C



ATOM	6959	C	ARG	A	471	6.425	93.892	112.498	0.00	0.00		C
ATOM	6960	O	ARG	A	471	7.299	94.027	111.609	0.00	0.00		O
ATOM	6961	CB	ARG	A	471	7.219	91.672	113.364	0.00	0.00		C
ATOM	6962	CG	ARG	A	471	7.586	90.757	114.567	0.00	0.00		C
ATOM	6963	CD	ARG	A	471	8.440	89.508	114.193	0.00	0.00		C
ATOM	6964	NE	ARG	A	471	9.837	89.742	114.430	0.00	0.00		N
ATOM	6965	CZ	ARG	A	471	10.632	89.102	115.290	0.00	0.00		C
ATOM	6966	NH1	ARG	A	471	10.335	87.955	115.883	0.00	0.00		N
ATOM	6967	NH2	ARG	A	471	11.806	89.645	115.573	0.00	0.00		N
ATOM	6968	HN	ARG	A	471	4.957	92.445	114.519	0.00	0.00		H
ATOM	6969	HNE	ARG	A	471	10.298	90.414	113.927	0.00	0.00		H
ATOM	6970	HNH1	ARG	A	471	9.497	87.520	115.692	0.00	0.00		H
ATOM	6971	HNH1	ARG	A	471	10.958	87.554	116.499	0.00	0.00		H
ATOM	6972	HNH2	ARG	A	471	12.051	90.481	115.174	0.00	0.00		H
ATOM	6973	HNH2	ARG	A	471	12.395	89.212	116.200	0.00	0.00		H
ATOM	6974	HCA	ARG	A	471	7.607	93.631	114.188	0.00	0.00		H
ATOM	6975	HCB	ARG	A	471	6.433	91.179	112.783	0.00	0.00		H
ATOM	6976	HCB	ARG	A	471	8.099	91.751	112.718	0.00	0.00		H
ATOM	6977	HCD	ARG	A	471	8.074	88.660	114.779	0.00	0.00		H
ATOM	6978	HCD	ARG	A	471	8.301	89.245	113.141	0.00	0.00		H
ATOM	6979	HCG	ARG	A	471	8.118	91.339	115.317	0.00	0.00		H
ATOM	6980	HCG	ARG	A	471	6.654	90.424	115.033	0.00	0.00		H
ATOM	6981	N	THR	A	472	5.210	94.464	112.321	0.00	0.00		N
ATOM	6982	CA	THR	A	472	4.773	95.238	111.185	0.00	0.00		C
ATOM	6983	C	THR	A	472	5.645	96.420	110.923	0.00	0.00		C
ATOM	6984	O	THR	A	472	5.989	97.149	111.886	0.00	0.00		O
ATOM	6985	CB	THR	A	472	3.312	95.742	111.412	0.00	0.00		C
ATOM	6986	CG2	THR	A	472	2.262	94.613	111.493	0.00	0.00		C
ATOM	6987	OG1	THR	A	472	3.267	96.515	112.611	0.00	0.00		O
ATOM	6988	HN	THR	A	472	4.571	94.346	113.039	0.00	0.00		H
ATOM	6989	HCA	THR	A	472	4.780	94.588	110.305	0.00	0.00		H
ATOM	6990	HCB	THR	A	472	3.025	96.395	110.580	0.00	0.00		H
ATOM	6991	HCG2	THR	A	472	2.287	94.004	110.588	0.00	0.00		H
ATOM	6992	HCG2	THR	A	472	2.444	93.971	112.354	0.00	0.00		H
ATOM	6993	HCG2	THR	A	472	1.266	95.045	111.589	0.00	0.00		H
ATOM	6994	HOG1	THR	A	472	4.144	96.924	112.563	0.00	0.00		H
ATOM	6995	N	LEU	A	473	5.997	96.736	109.657	0.00	0.00		N
ATOM	6996	CA	LEU	A	473	6.864	97.810	109.252	0.00	0.00		C
ATOM	6997	C	LEU	A	473	6.100	99.026	108.811	0.00	0.00		C
ATOM	6998	O	LEU	A	473	5.035	98.837	108.170	0.00	0.00		O
ATOM	6999	CB	LEU	A	473	7.803	97.267	108.136	0.00	0.00		C
ATOM	7000	CG	LEU	A	473	8.787	96.130	108.566	0.00	0.00		C
ATOM	7001	CD1	LEU	A	473	9.505	95.540	107.322	0.00	0.00		C
ATOM	7002	CD2	LEU	A	473	9.841	96.615	109.598	0.00	0.00		C
ATOM	7003	HN	LEU	A	473	5.633	96.181	108.952	0.00	0.00		H
ATOM	7004	HCA	LEU	A	473	7.484	98.097	110.100	0.00	0.00		H
ATOM	7005	HCB	LEU	A	473	7.181	96.914	107.308	0.00	0.00		H
ATOM	7006	HCB	LEU	A	473	8.403	98.089	107.750	0.00	0.00		H
ATOM	7007	HCD1	LEU	A	473	10.095	96.308	106.817	0.00	0.00		H
ATOM	7008	HCD1	LEU	A	473	10.168	94.724	107.614	0.00	0.00		H
ATOM	7009	HCD1	LEU	A	473	8.775	95.142	106.615	0.00	0.00		H
ATOM	7010	HCD2	LEU	A	473	10.360	97.505	109.236	0.00	0.00		H
ATOM	7011	HCD2	LEU	A	473	9.369	96.849	110.553	0.00	0.00		H
ATOM	7012	HCD2	LEU	A	473	10.578	95.833	109.783	0.00	0.00		H
ATOM	7013	HCG	LEU	A	473	8.213	95.318	109.025	0.00	0.00		H
ATOM	7014	N	PRO	A	474	6.482	100.318	109.081	0.00	0.00		N
ATOM	7015	CA	PRO	A	474	5.623	101.466	108.915	0.00	0.00		C
ATOM	7016	C	PRO	A	474	5.205	101.794	107.556	0.00	0.00		C
ATOM	7017	O	PRO	A	474	4.099	102.304	107.434	0.00	0.00		O
ATOM	7018	CB	PRO	A	474	6.395	102.651	109.552	0.00	0.00		C
ATOM	7019	CG	PRO	A	474	7.856	102.200	109.514	0.00	0.00		C
ATOM	7020	CD	PRO	A	474	7.753	100.674	109.637	0.00	0.00		C
ATOM	7021	HCA	PRO	A	474	4.725	101.289	109.520	0.00	0.00		H
ATOM	7022	HCB	PRO	A	474	6.267	103.601	109.023	0.00	0.00		H
ATOM	7023	HCB	PRO	A	474	6.078	102.795	110.586	0.00	0.00		H
ATOM	7024	HCD	PRO	A	474	8.578	100.197	109.106	0.00	0.00		H
ATOM	7025	HCD	PRO	A	474	7.792	100.387	110.687	0.00	0.00		H
ATOM	7026	HCG	PRO	A	474	8.300	102.475	108.555	0.00	0.00		H
ATOM	7027	HCG	PRO	A	474	8.444	102.637	110.325	0.00	0.00		H
ATOM	7028	N	LYS	A	475	5.969	101.613	106.491	0.00	0.00		N
ATOM	7029	CA	LYS	A	475	5.688	102.053	105.143	0.00	0.00		C
ATOM	7030	C	LYS	A	475	4.295	101.801	104.692	0.00	0.00		C
ATOM	7031	O	LYS	A	475	3.592	102.739	104.234	0.00	0.00		O
ATOM	7032	CB	LYS	A	475	6.746	101.409	104.201	0.00	0.00		C
ATOM	7033	CG	LYS	A	475	6.588	101.732	102.688	0.00	0.00		C
ATOM	7034	CD	LYS	A	475	7.824	101.328	101.836	0.00	0.00		C
ATOM	7035	CE	LYS	A	475	8.096	99.804	101.797	0.00	0.00		C
ATOM	7036	NZ	LYS	A	475	9.227	99.507	100.916	0.00	0.00		N
ATOM	7037	HN	LYS	A	475	6.819	101.178	106.611	0.00	0.00		H
ATOM	7038	HNZ	LYS	A	475	10.066	99.965	101.270	0.00	0.00		H

ATOM	7039	HNZ	LYS	A	475	9.383	98.499	100.889	0.00	0.00		H
ATOM	7040	HNZ	LYS	A	475	9.030	99.843	99.974	0.00	0.00		H
ATOM	7041	HCA	LYS	A	475	5.849	103.126	105.127	0.00	0.00		H
ATOM	7042	HCN	LYS	A	475	7.730	101.764	104.520	0.00	0.00		H
ATOM	7043	HCN	LYS	A	475	6.722	100.324	104.338	0.00	0.00		H
ATOM	7044	HCD	LYS	A	475	7.659	101.678	100.813	0.00	0.00		H
ATOM	7045	HCD	LYS	A	475	8.709	101.842	102.221	0.00	0.00		H
ATOM	7046	HCE	LYS	A	475	8.337	99.431	102.794	0.00	0.00		H
ATOM	7047	HCE	LYS	A	475	7.214	99.275	101.428	0.00	0.00		H
ATOM	7048	HCG	LYS	A	475	5.701	101.227	102.296	0.00	0.00		H
ATOM	7049	HCG	LYS	A	475	6.432	102.806	102.569	0.00	0.00		H
ATOM	7050	N	LYS	A	476	3.784	100.568	104.896	0.00	0.00		N
ATOM	7051	CA	LYS	A	476	2.468	100.108	104.556	0.00	0.00		C
ATOM	7052	C	LYS	A	476	1.370	100.954	105.114	0.00	0.00		C
ATOM	7053	O	LYS	A	476	0.211	100.819	104.658	0.00	0.00		O
ATOM	7054	CB	LYS	A	476	2.329	98.636	105.055	0.00	0.00		C
ATOM	7055	CG	LYS	A	476	3.390	97.646	104.487	0.00	0.00		C
ATOM	7056	CD	LYS	A	476	3.268	96.228	105.110	0.00	0.00		C
ATOM	7057	CE	LYS	A	476	4.394	95.274	104.646	0.00	0.00		C
ATOM	7058	NZ	LYS	A	476	4.243	93.956	105.271	0.00	0.00		N
ATOM	7059	HN	LYS	A	476	4.371	99.940	105.344	0.00	0.00		H
ATOM	7060	HNZ	LYS	A	476	3.349	93.547	105.002	0.00	0.00		H
ATOM	7061	HNZ	LYS	A	476	4.998	93.341	104.965	0.00	0.00		H
ATOM	7062	HNZ	LYS	A	476	4.278	94.048	106.286	0.00	0.00		H
ATOM	7063	HCA	LYS	A	476	2.382	100.123	103.465	0.00	0.00		H
ATOM	7064	HCN	LYS	A	476	2.396	98.633	106.149	0.00	0.00		H
ATOM	7065	HCN	LYS	A	476	1.338	98.260	104.785	0.00	0.00		H
ATOM	7066	HCD	LYS	A	476	3.311	96.310	106.200	0.00	0.00		H
ATOM	7067	HCD	LYS	A	476	2.299	95.799	104.838	0.00	0.00		H
ATOM	7068	HCE	LYS	A	476	4.362	95.155	103.561	0.00	0.00		H
ATOM	7069	HCE	LYS	A	476	5.370	95.680	104.925	0.00	0.00		H
ATOM	7070	HCG	LYS	A	476	3.272	97.578	103.402	0.00	0.00		H
ATOM	7071	HCG	LYS	A	476	4.395	98.022	104.693	0.00	0.00		H
ATOM	7072	N	SER	A	477	1.611	101.842	106.109	0.00	0.00		N
ATOM	7073	CA	SER	A	477	0.679	102.701	106.772	0.00	0.00		C
ATOM	7074	C	SER	A	477	1.113	104.130	106.789	0.00	0.00		C
ATOM	7075	O	SER	A	477	0.520	104.907	107.581	0.00	0.00		O
ATOM	7076	CB	SER	A	477	0.522	102.116	108.203	0.00	0.00		C
ATOM	7077	OG	SER	A	477	1.682	102.289	109.023	0.00	0.00		O
ATOM	7078	HN	SER	A	477	2.499	101.907	106.452	0.00	0.00		H
ATOM	7079	HCA	SER	A	477	-0.300	102.667	106.288	0.00	0.00		H
ATOM	7080	HCN	SER	A	477	-0.318	102.600	108.704	0.00	0.00		H
ATOM	7081	HCN	SER	A	477	0.293	101.048	108.147	0.00	0.00		H
ATOM	7082	HOG	SER	A	477	2.468	102.241	108.458	0.00	0.00		H
ATOM	7083	N	PHE	A	478	2.101	104.626	105.987	0.00	0.00		N
ATOM	7084	CA	PHE	A	478	2.580	105.992	106.046	0.00	0.00		C
ATOM	7085	C	PHE	A	478	1.514	107.044	106.076	0.00	0.00		C
ATOM	7086	O	PHE	A	478	1.622	107.980	106.904	0.00	0.00		O
ATOM	7087	CB	PHE	A	478	3.613	106.357	104.932	0.00	0.00		C
ATOM	7088	CG	PHE	A	478	5.031	105.896	105.031	0.00	0.00		C
ATOM	7089	CD1	PHE	A	478	5.738	105.810	106.258	0.00	0.00		C
ATOM	7090	CD2	PHE	A	478	5.752	105.647	103.836	0.00	0.00		C
ATOM	7091	CE1	PHE	A	478	7.099	105.453	106.292	0.00	0.00		C
ATOM	7092	CE2	PHE	A	478	7.119	105.315	103.864	0.00	0.00		C
ATOM	7093	CZ	PHE	A	478	7.787	105.202	105.093	0.00	0.00		C
ATOM	7094	HN	PHE	A	478	2.556	104.013	105.398	0.00	0.00		H
ATOM	7095	HCA	PHE	A	478	3.088	106.054	107.002	0.00	0.00		H
ATOM	7096	HCN	PHE	A	478	3.179	106.053	103.974	0.00	0.00		H
ATOM	7097	HCN	PHE	A	478	3.710	107.444	104.905	0.00	0.00		H
ATOM	7098	HCD1	PHE	A	478	5.284	106.017	107.145	0.00	0.00		H
ATOM	7099	HCD2	PHE	A	478	5.289	105.718	102.927	0.00	0.00		H
ATOM	7100	HCE1	PHE	A	478	7.590	105.378	107.187	0.00	0.00		H
ATOM	7101	HCE2	PHE	A	478	7.626	105.149	102.991	0.00	0.00		H
ATOM	7102	HCZ	PHE	A	478	8.771	104.935	105.113	0.00	0.00		H
ATOM	7103	N	GLU	A	479	0.434	107.000	105.258	0.00	0.00		N
ATOM	7104	CA	GLU	A	479	-0.674	107.925	105.284	0.00	0.00		C
ATOM	7105	C	GLU	A	479	-1.262	108.030	106.653	0.00	0.00		C
ATOM	7106	O	GLU	A	479	-1.274	109.129	107.262	0.00	0.00		O
ATOM	7107	CB	GLU	A	479	-1.758	107.475	104.255	0.00	0.00		C
ATOM	7108	CG	GLU	A	479	-1.399	107.692	102.756	0.00	0.00		C
ATOM	7109	CD	GLU	A	479	-1.478	109.090	102.298	0.00	0.00		C
ATOM	7110	OE1	GLU	A	479	-2.511	109.772	102.464	0.00	0.00		O
ATOM	7111	OE2	GLU	A	479	-0.536	109.628	101.680	0.00	0.00		O
ATOM	7112	HN	GLU	A	479	0.400	106.271	104.620	0.00	0.00		H
ATOM	7113	HCA	GLU	A	479	-0.307	108.913	104.988	0.00	0.00		H
ATOM	7114	HCN	GLU	A	479	-1.953	106.409	104.398	0.00	0.00		H
ATOM	7115	HCN	GLU	A	479	-2.700	107.995	104.460	0.00	0.00		H
ATOM	7116	HCG	GLU	A	479	-0.404	107.291	102.552	0.00	0.00		H
ATOM	7117	HCG	GLU	A	479	-2.108	107.127	102.147	0.00	0.00		H
ATOM	7118	N	GLN	A	480	-1.751	106.926	107.259	0.00	0.00		N

ATOM	7119	CA	GLN	A	480	-2.293	106.833	108.578	0.00	0.00	C
ATOM	7120	C	GLN	A	480	-1.367	107.306	109.614	0.00	0.00	C
ATOM	7121	O	GLN	A	480	-1.795	108.107	110.442	0.00	0.00	O
ATOM	7122	CB	GLN	A	480	-2.731	105.360	108.837	0.00	0.00	C
ATOM	7123	CG	GLN	A	480	-3.820	104.764	107.892	0.00	0.00	C
ATOM	7124	CD	GLN	A	480	-3.472	104.660	106.460	0.00	0.00	C
ATOM	7125	NE2	GLN	A	480	-4.369	104.918	105.505	0.00	0.00	N
ATOM	7126	OE1	GLN	A	480	-2.322	104.352	106.077	0.00	0.00	O
ATOM	7127	HN	GLN	A	480	-1.786	106.111	106.762	0.00	0.00	H
ATOM	7128	HNE2	GLN	A	480	-5.273	105.171	105.740	0.00	0.00	H
ATOM	7129	HNE2	GLN	A	480	-4.107	104.845	104.576	0.00	0.00	H
ATOM	7130	HCA	GLN	A	480	-3.202	107.445	108.601	0.00	0.00	H
ATOM	7131	HCB	GLN	A	480	-1.855	104.706	108.821	0.00	0.00	H
ATOM	7132	HCB	GLN	A	480	-3.149	105.323	109.844	0.00	0.00	H
ATOM	7133	HCG	GLN	A	480	-4.042	103.750	108.233	0.00	0.00	H
ATOM	7134	HCG	GLN	A	480	-4.737	105.349	108.001	0.00	0.00	H
ATOM	7135	N	ILE	A	481	-0.096	106.918	109.656	0.00	0.00	N
ATOM	7136	CA	ILE	A	481	0.859	107.421	110.630	0.00	0.00	C
ATOM	7137	C	ILE	A	481	1.044	108.894	110.500	0.00	0.00	C
ATOM	7138	O	ILE	A	481	0.971	109.578	111.545	0.00	0.00	O
ATOM	7139	CB	ILE	A	481	2.203	106.627	110.840	0.00	0.00	C
ATOM	7140	CG1	ILE	A	481	3.412	107.146	109.999	0.00	0.00	C
ATOM	7141	CG2	ILE	A	481	1.988	105.092	110.725	0.00	0.00	C
ATOM	7142	CD1	ILE	A	481	4.737	106.366	110.180	0.00	0.00	C
ATOM	7143	HN	ILE	A	481	0.180	106.275	108.994	0.00	0.00	H
ATOM	7144	HCA	ILE	A	481	0.352	107.283	111.588	0.00	0.00	H
ATOM	7145	HCB	ILE	A	481	2.503	106.803	111.881	0.00	0.00	H
ATOM	7146	HCD1	ILE	A	481	4.999	106.298	111.237	0.00	0.00	H
ATOM	7147	HCD1	ILE	A	481	4.647	105.360	109.769	0.00	0.00	H
ATOM	7148	HCD1	ILE	A	481	5.545	106.879	109.655	0.00	0.00	H
ATOM	7149	HCG1	ILE	A	481	3.142	107.156	108.948	0.00	0.00	H
ATOM	7150	HCG1	ILE	A	481	3.618	108.178	110.291	0.00	0.00	H
ATOM	7151	HCG2	ILE	A	481	1.058	104.786	111.207	0.00	0.00	H
ATOM	7152	HCG2	ILE	A	481	1.953	104.801	109.679	0.00	0.00	H
ATOM	7153	HCG2	ILE	A	481	2.801	104.546	111.206	0.00	0.00	H
ATOM	7154	N	SER	A	482	1.227	109.514	109.305	0.00	0.00	N
ATOM	7155	CA	SER	A	482	1.293	110.946	109.121	0.00	0.00	C
ATOM	7156	C	SER	A	482	0.095	111.629	109.689	0.00	0.00	C
ATOM	7157	O	SER	A	482	0.234	112.530	110.556	0.00	0.00	O
ATOM	7158	CB	SER	A	482	1.555	111.329	107.636	0.00	0.00	C
ATOM	7159	OG	SER	A	482	0.390	111.402	106.816	0.00	0.00	O
ATOM	7160	HN	SER	A	482	1.324	108.966	108.526	0.00	0.00	H
ATOM	7161	HCA	SER	A	482	2.175	111.290	109.661	0.00	0.00	H
ATOM	7162	HCB	SER	A	482	2.018	112.317	107.600	0.00	0.00	H
ATOM	7163	HCB	SER	A	482	2.261	110.626	107.187	0.00	0.00	H
ATOM	7164	HOG	SER	A	482	-0.115	110.592	106.961	0.00	0.00	H
ATOM	7165	N	ALA	A	483	-1.142	111.195	109.339	0.00	0.00	N
ATOM	7166	CA	ALA	A	483	-2.376	111.692	109.876	0.00	0.00	C
ATOM	7167	C	ALA	A	483	-2.430	111.643	111.366	0.00	0.00	C
ATOM	7168	O	ALA	A	483	-2.689	112.704	111.985	0.00	0.00	O
ATOM	7169	CB	ALA	A	483	-3.556	110.923	109.235	0.00	0.00	C
ATOM	7170	HN	ALA	A	483	-1.189	110.501	108.677	0.00	0.00	H
ATOM	7171	HCA	ALA	A	483	-2.469	112.736	109.557	0.00	0.00	H
ATOM	7172	HCB	ALA	A	483	-3.532	109.868	109.511	0.00	0.00	H
ATOM	7173	HCB	ALA	A	483	-4.507	111.345	109.568	0.00	0.00	H
ATOM	7174	HCB	ALA	A	483	-3.511	110.998	108.146	0.00	0.00	H
ATOM	7175	N	ASN	A	484	-2.182	110.502	112.058	0.00	0.00	N
ATOM	7176	CA	ASN	A	484	-2.168	110.425	113.498	0.00	0.00	C
ATOM	7177	C	ASN	A	484	-1.088	111.233	114.147	0.00	0.00	C
ATOM	7178	O	ASN	A	484	-1.414	111.954	115.124	0.00	0.00	O
ATOM	7179	CB	ASN	A	484	-2.176	108.957	114.011	0.00	0.00	C
ATOM	7180	CG	ASN	A	484	-3.462	108.258	113.795	0.00	0.00	C
ATOM	7181	ND2	ASN	A	484	-3.505	107.021	113.300	0.00	0.00	N
ATOM	7182	OD1	ASN	A	484	-4.553	108.769	114.125	0.00	0.00	O
ATOM	7183	HN	ASN	A	484	-2.016	109.707	111.546	0.00	0.00	H
ATOM	7184	HND2	ASN	A	484	-2.681	106.576	113.136	0.00	0.00	H
ATOM	7185	HND2	ASN	A	484	-4.348	106.574	113.143	0.00	0.00	H
ATOM	7186	HCA	ASN	A	484	-3.116	110.855	113.829	0.00	0.00	H
ATOM	7187	HCB	ASN	A	484	-1.355	108.408	113.547	0.00	0.00	H
ATOM	7188	HCB	ASN	A	484	-2.008	108.953	115.089	0.00	0.00	H
ATOM	7189	N	ILE	A	485	0.209	111.235	113.733	0.00	0.00	N
ATOM	7190	CA	ILE	A	485	1.245	112.051	114.327	0.00	0.00	C
ATOM	7191	C	ILE	A	485	0.943	113.504	114.215	0.00	0.00	C
ATOM	7192	O	ILE	A	485	1.270	114.245	115.173	0.00	0.00	O
ATOM	7193	CB	ILE	A	485	2.726	111.732	113.910	0.00	0.00	C
ATOM	7194	CG1	ILE	A	485	3.098	112.088	112.434	0.00	0.00	C
ATOM	7195	CG2	ILE	A	485	3.126	110.268	114.259	0.00	0.00	C
ATOM	7196	CD1	ILE	A	485	4.568	112.530	112.243	0.00	0.00	C
ATOM	7197	HN	ILE	A	485	0.447	110.679	112.994	0.00	0.00	H
ATOM	7198	HCA	ILE	A	485	1.190	111.821	115.395	0.00	0.00	H

ATOM	7199	HC	B	ILE	A	485	3.353	112.370	114.543	0.00	0.00	
ATOM	7200	HCD1		ILE	A	485	4.796	113.392	112.874	0.00	0.00	
ATOM	7201	HCD1		ILE	A	485	5.249	111.715	112.492	0.00	0.00	
ATOM	7202	HCD1		ILE	A	485	4.734	112.817	111.205	0.00	0.00	
ATOM	7203	HCG1		ILE	A	485	2.919	111.223	111.801	0.00	0.00	
ATOM	7204	HCG1		ILE	A	485	2.476	112.902	112.063	0.00	0.00	
ATOM	7205	HCG2		ILE	A	485	2.926	110.050	115.309	0.00	0.00	
ATOM	7206	HCG2		ILE	A	485	2.569	109.556	113.651	0.00	0.00	
ATOM	7207	HCG2		ILE	A	485	4.192	110.110	114.085	0.00	0.00	
ATOM	7208	N		THR	A	486	0.292	114.016	113.138	0.00	0.00	
ATOM	7209	CA		THR	A	486	-0.288	115.334	113.093	0.00	0.00	
ATOM	7210	C		THR	A	486	-1.391	115.470	114.092	0.00	0.00	
ATOM	7211	O		THR	A	486	-1.264	116.313	115.010	0.00	0.00	
ATOM	7212	CB		THR	A	486	-0.750	115.673	111.643	0.00	0.00	
ATOM	7213	CG2		THR	A	486	-1.364	117.084	111.482	0.00	0.00	
ATOM	7214	OG1		THR	A	486	0.375	115.612	110.767	0.00	0.00	
ATOM	7215	HN		THR	A	486	0.211	113.467	112.348	0.00	0.00	
ATOM	7216	HCA		THR	A	486	0.501	116.052	113.343	0.00	0.00	
ATOM	7217	HC	B	THR	A	486	-1.481	114.932	111.309	0.00	0.00	
ATOM	7218	HCG2		THR	A	486	-0.654	117.847	111.806	0.00	0.00	
ATOM	7219	HCG2		THR	A	486	-1.619	117.265	110.437	0.00	0.00	
ATOM	7220	HCG2		THR	A	486	-2.276	117.177	112.074	0.00	0.00	
ATOM	7221	HOG1		THR	A	486	0.004	115.734	109.866	0.00	0.00	
ATOM	7222	N		LYS	A	487	-2.506	114.696	114.054	0.00	0.00	
ATOM	7223	CA		LYS	A	487	-3.653	114.791	114.929	0.00	0.00	
ATOM	7224	C		LYS	A	487	-3.295	114.896	116.370	0.00	0.00	
ATOM	7225	O		LYS	A	487	-3.727	115.861	117.046	0.00	0.00	
ATOM	7226	CB		LYS	A	487	-4.581	113.560	114.688	0.00	0.00	
ATOM	7227	CG		LYS	A	487	-5.866	113.507	115.565	0.00	0.00	
ATOM	7228	CD		LYS	A	487	-6.655	112.182	115.383	0.00	0.00	
ATOM	7229	CE		LYS	A	487	-7.800	112.029	116.413	0.00	0.00	
ATOM	7230	NZ		LYS	A	487	-8.474	110.738	116.251	0.00	0.00	
ATOM	7231	HN		LYS	A	487	-2.548	114.038	113.360	0.00	0.00	
ATOM	7232	HNZ		LYS	A	487	-7.805	109.981	116.387	0.00	0.00	
ATOM	7233	HNZ		LYS	A	487	-9.221	110.652	116.940	0.00	0.00	
ATOM	7234	HNZ		LYS	A	487	-8.872	110.672	115.314	0.00	0.00	
ATOM	7235	HCA		LYS	A	487	-4.211	115.687	114.639	0.00	0.00	
ATOM	7236	HC	B	LYS	A	487	-4.876	113.537	113.635	0.00	0.00	
ATOM	7237	HC	B	LYS	A	487	-4.003	112.660	114.890	0.00	0.00	
ATOM	7238	HCD		LYS	A	487	-7.070	112.146	114.372	0.00	0.00	
ATOM	7239	HCD		LYS	A	487	-5.972	111.336	115.498	0.00	0.00	
ATOM	7240	HCE		LYS	A	487	-7.401	112.082	117.430	0.00	0.00	
ATOM	7241	HCE		LYS	A	487	-8.531	112.830	116.283	0.00	0.00	
ATOM	7242	HCG		LYS	A	487	-5.589	113.593	116.620	0.00	0.00	
ATOM	7243	HCG		LYS	A	487	-6.510	114.356	115.316	0.00	0.00	
ATOM	7244	N		PHE	A	488	-2.509	113.955	116.939	0.00	0.00	
ATOM	7245	CA		PHE	A	488	-2.129	113.932	118.324	0.00	0.00	
ATOM	7246	C		PHE	A	488	-1.021	114.878	118.644	0.00	0.00	
ATOM	7247	O		PHE	A	488	-0.716	115.018	119.853	0.00	0.00	
ATOM	7248	CB		PHE	A	488	-1.754	112.464	118.702	0.00	0.00	
ATOM	7249	CG		PHE	A	488	-2.943	111.584	118.878	0.00	0.00	
ATOM	7250	CD1		PHE	A	488	-3.537	111.433	120.154	0.00	0.00	
ATOM	7251	CD2		PHE	A	488	-3.497	110.875	117.787	0.00	0.00	
ATOM	7252	CE1		PHE	A	488	-4.644	110.583	120.337	0.00	0.00	
ATOM	7253	CE2		PHE	A	488	-4.603	110.023	117.968	0.00	0.00	
ATOM	7254	CZ		PHE	A	488	-5.176	109.877	119.244	0.00	0.00	
ATOM	7255	HN		PHE	A	488	-2.158	113.277	116.357	0.00	0.00	
ATOM	7256	HCA		PHE	A	488	-2.983	114.236	118.939	0.00	0.00	
ATOM	7257	HC	B	PHE	A	488	-1.084	112.042	117.947	0.00	0.00	
ATOM	7258	HC	B	PHE	A	488	-1.184	112.454	119.635	0.00	0.00	
ATOM	7259	HCD1		PHE	A	488	-3.163	111.938	120.961	0.00	0.00	
ATOM	7260	HCD2		PHE	A	488	-3.094	110.966	116.855	0.00	0.00	
ATOM	7261	HCE1		PHE	A	488	-5.058	110.476	121.266	0.00	0.00	
ATOM	7262	HCE2		PHE	A	488	-4.986	109.505	117.174	0.00	0.00	
ATOM	7263	HCZ		PHE	A	488	-5.976	109.254	119.379	0.00	0.00	
ATOM	7264	N		ASN	A	489	-0.354	115.568	117.684	0.00	0.00	
ATOM	7265	CA		ASN	A	489	0.900	116.251	117.815	0.00	0.00	
ATOM	7266	C		ASN	A	489	1.966	115.436	118.478	0.00	0.00	
ATOM	7267	O		ASN	A	489	2.296	115.635	119.672	0.00	0.00	
ATOM	7268	CB		ASN	A	489	0.728	117.716	118.315	0.00	0.00	
ATOM	7269	CG		ASN	A	489	1.962	118.509	118.144	0.00	0.00	
ATOM	7270	ND2		ASN	A	489	2.502	119.213	119.139	0.00	0.00	
ATOM	7271	OD1		ASN	A	489	2.580	118.529	117.058	0.00	0.00	
ATOM	7272	HN		ASN	A	489	-0.745	115.641	116.809	0.00	0.00	
ATOM	7273	HND2		ASN	A	489	2.032	119.322	119.976	0.00	0.00	
ATOM	7274	HND2		ASN	A	489	3.390	119.551	119.031	0.00	0.00	
ATOM	7275	HCA		ASN	A	489	1.227	116.356	116.775	0.00	0.00	
ATOM	7276	HC	B	ASN	A	489	-0.058	118.204	117.733	0.00	0.00	
ATOM	7277	HC	B	ASN	A	489	0.417	117.713	119.362	0.00	0.00	
ATOM	7278	N		ILE	A	490	2.585	114.486	117.741	0.00	0.00	

ATOM	7279	CA	ILE	A	490	3.721	113.690	118.131	0.00	0.00	C
ATOM	7280	C	ILE	A	490	4.920	114.252	117.449	0.00	0.00	C
ATOM	7281	O	ILE	A	490	4.980	114.283	116.197	0.00	0.00	O
ATOM	7282	CB	ILE	A	490	3.462	112.175	117.823	0.00	0.00	C
ATOM	7283	CG1	ILE	A	490	2.389	111.584	118.796	0.00	0.00	C
ATOM	7284	CG2	ILE	A	490	4.775	111.337	117.827	0.00	0.00	C
ATOM	7285	CD1	ILE	A	490	1.774	110.230	118.361	0.00	0.00	C
ATOM	7286	HN	ILE	A	490	2.224	114.367	116.861	0.00	0.00	H
ATOM	7287	HCA	ILE	A	490	3.884	113.767	119.211	0.00	0.00	H
ATOM	7288	HCB	ILE	A	490	3.056	112.117	116.817	0.00	0.00	H
ATOM	7289	HCD1	ILE	A	490	1.280	110.326	117.394	0.00	0.00	H
ATOM	7290	HCD1	ILE	A	490	2.527	109.446	118.296	0.00	0.00	H
ATOM	7291	HCD1	ILE	A	490	1.033	109.917	119.096	0.00	0.00	H
ATOM	7292	HCG1	ILE	A	490	2.827	111.472	119.791	0.00	0.00	H
ATOM	7293	HCG1	ILE	A	490	1.559	112.289	118.889	0.00	0.00	H
ATOM	7294	HCG2	ILE	A	490	5.449	111.663	117.033	0.00	0.00	H
ATOM	7295	HCG2	ILE	A	490	5.291	111.440	118.782	0.00	0.00	H
ATOM	7296	HCG2	ILE	A	490	4.569	110.284	117.642	0.00	0.00	H
ATOM	7297	N	GLN	A	491	5.939	114.727	118.200	0.00	0.00	N
ATOM	7298	CA	GLN	A	491	7.129	115.391	117.757	0.00	0.00	C
ATOM	7299	C	GLN	A	491	8.352	114.592	117.858	0.00	0.00	C
ATOM	7300	O	GLN	A	491	9.406	115.125	117.532	0.00	0.00	O
ATOM	7301	CB	GLN	A	491	7.218	116.696	118.614	0.00	0.00	C
ATOM	7302	CG	GLN	A	491	6.064	117.712	118.344	0.00	0.00	C
ATOM	7303	CD	GLN	A	491	6.133	118.980	119.099	0.00	0.00	C
ATOM	7304	NE2	GLN	A	491	7.069	119.240	120.017	0.00	0.00	N
ATOM	7305	OE1	GLN	A	491	5.291	119.883	118.907	0.00	0.00	O
ATOM	7306	HN	GLN	A	491	5.828	114.700	119.146	0.00	0.00	H
ATOM	7307	HNE2	GLN	A	491	7.765	118.597	120.206	0.00	0.00	H
ATOM	7308	HNE2	GLN	A	491	7.050	120.096	120.469	0.00	0.00	H
ATOM	7309	HCA	GLN	A	491	7.029	115.659	116.706	0.00	0.00	H
ATOM	7310	HCB	GLN	A	491	7.226	116.432	119.674	0.00	0.00	H
ATOM	7311	HCB	GLN	A	491	8.171	117.192	118.424	0.00	0.00	H
ATOM	7312	HCG	GLN	A	491	6.046	117.964	117.283	0.00	0.00	H
ATOM	7313	HCG	GLN	A	491	5.107	117.243	118.574	0.00	0.00	H
ATOM	7314	N	GLY	A	492	8.364	113.334	118.264	0.00	0.00	N
ATOM	7315	CA	GLY	A	492	9.547	112.533	118.450	0.00	0.00	C
ATOM	7316	C	GLY	A	492	9.262	111.114	118.733	0.00	0.00	C
ATOM	7317	O	GLY	A	492	8.337	110.853	119.539	0.00	0.00	O
ATOM	7318	HN	GLY	A	492	7.509	112.934	118.488	0.00	0.00	H
ATOM	7319	HCA	GLY	A	492	10.189	112.609	117.570	0.00	0.00	H
ATOM	7320	HCA	GLY	A	492	10.094	112.922	119.305	0.00	0.00	H
ATOM	7321	N	LEU	A	493	9.998	110.134	118.150	0.00	0.00	N
ATOM	7322	CA	LEU	A	493	9.751	108.714	118.283	0.00	0.00	C
ATOM	7323	C	LEU	A	493	10.794	108.003	119.088	0.00	0.00	C
ATOM	7324	O	LEU	A	493	11.956	107.851	118.643	0.00	0.00	O
ATOM	7325	CB	LEU	A	493	9.546	108.097	116.852	0.00	0.00	C
ATOM	7326	CG	LEU	A	493	8.104	107.589	116.540	0.00	0.00	C
ATOM	7327	CD1	LEU	A	493	7.059	108.733	116.484	0.00	0.00	C
ATOM	7328	CD2	LEU	A	493	8.074	106.798	115.203	0.00	0.00	C
ATOM	7329	HN	LEU	A	493	10.710	110.428	117.569	0.00	0.00	H
ATOM	7330	HCA	LEU	A	493	8.820	108.561	118.836	0.00	0.00	H
ATOM	7331	HCB	LEU	A	493	9.828	108.822	116.082	0.00	0.00	H
ATOM	7332	HCB	LEU	A	493	10.220	107.247	116.726	0.00	0.00	H
ATOM	7333	HCD1	LEU	A	493	7.097	109.346	117.382	0.00	0.00	H
ATOM	7334	HCD1	LEU	A	493	7.245	109.373	115.626	0.00	0.00	H
ATOM	7335	HCD1	LEU	A	493	6.051	108.320	116.398	0.00	0.00	H
ATOM	7336	HCD2	LEU	A	493	8.693	105.904	115.280	0.00	0.00	H
ATOM	7337	HCD2	LEU	A	493	7.057	106.483	114.960	0.00	0.00	H
ATOM	7338	HCD2	LEU	A	493	8.446	107.414	114.382	0.00	0.00	H
ATOM	7339	HCG	LEU	A	493	7.812	106.906	117.343	0.00	0.00	H
ATOM	7340	N	VAL	A	494	10.490	107.441	120.283	0.00	0.00	N
ATOM	7341	CA	VAL	A	494	11.369	106.590	121.048	0.00	0.00	C
ATOM	7342	C	VAL	A	494	10.902	105.193	120.825	0.00	0.00	C
ATOM	7343	O	VAL	A	494	9.765	104.825	121.205	0.00	0.00	O
ATOM	7344	CB	VAL	A	494	11.461	107.034	122.545	0.00	0.00	C
ATOM	7345	CG1	VAL	A	494	12.481	106.156	123.325	0.00	0.00	C
ATOM	7346	CG2	VAL	A	494	11.867	108.530	122.680	0.00	0.00	C
ATOM	7347	HN	VAL	A	494	9.609	107.595	120.627	0.00	0.00	H
ATOM	7348	HCA	VAL	A	494	12.392	106.658	120.664	0.00	0.00	H
ATOM	7349	HCB	VAL	A	494	10.477	106.916	123.008	0.00	0.00	H
ATOM	7350	HCG1	VAL	A	494	12.138	105.123	123.351	0.00	0.00	H
ATOM	7351	HCG1	VAL	A	494	13.464	106.186	122.850	0.00	0.00	H
ATOM	7352	HCG1	VAL	A	494	12.593	106.496	124.354	0.00	0.00	H
ATOM	7353	HCG2	VAL	A	494	12.841	108.709	122.219	0.00	0.00	H
ATOM	7354	HCG2	VAL	A	494	11.129	109.173	122.198	0.00	0.00	H
ATOM	7355	HCG2	VAL	A	494	11.923	108.819	123.730	0.00	0.00	H
ATOM	7356	N	ILE	A	495	11.686	104.334	120.136	0.00	0.00	N
ATOM	7357	CA	ILE	A	495	11.321	103.039	119.651	0.00	0.00	C
ATOM	7358	C	ILE	A	495	12.121	102.059	120.431	0.00	0.00	C

ATOM	7359	O	ILE	A	495	13.363	101.996	120.262	0.00	0.00	O
ATOM	7360	CB	ILE	A	495	11.572	102.944	118.099	0.00	0.00	C
ATOM	7361	CG1	ILE	A	495	11.019	104.171	117.296	0.00	0.00	C
ATOM	7362	CG2	ILE	A	495	11.009	101.610	117.531	0.00	0.00	C
ATOM	7363	CD1	ILE	A	495	11.476	104.237	115.818	0.00	0.00	C
ATOM	7364	HN	ILE	A	495	12.566	104.619	119.898	0.00	0.00	H
ATOM	7365	HCA	ILE	A	495	10.260	102.846	119.829	0.00	0.00	H
ATOM	7366	HCB	ILE	A	495	12.653	102.936	117.939	0.00	0.00	H
ATOM	7367	HCD1	ILE	A	495	12.563	104.168	115.749	0.00	0.00	H
ATOM	7368	HCD1	ILE	A	495	11.032	103.430	115.237	0.00	0.00	H
ATOM	7369	HCD1	ILE	A	495	11.166	105.184	115.375	0.00	0.00	H
ATOM	7370	HCG1	ILE	A	495	9.927	104.180	117.335	0.00	0.00	H
ATOM	7371	HCG1	ILE	A	495	11.369	105.096	117.759	0.00	0.00	H
ATOM	7372	HCG2	ILE	A	495	11.345	100.758	118.124	0.00	0.00	H
ATOM	7373	HCG2	ILE	A	495	9.921	101.625	117.536	0.00	0.00	H
ATOM	7374	HCG2	ILE	A	495	11.343	101.456	116.505	0.00	0.00	H
ATOM	7375	N	ILE	A	496	11.531	101.229	121.321	0.00	0.00	N
ATOM	7376	CA	ILE	A	496	12.221	100.169	122.013	0.00	0.00	C
ATOM	7377	C	ILE	A	496	12.140	98.981	121.120	0.00	0.00	C
ATOM	7378	O	ILE	A	496	10.992	98.551	120.852	0.00	0.00	O
ATOM	7379	CB	ILE	A	496	11.647	99.928	123.458	0.00	0.00	C
ATOM	7380	CG1	ILE	A	496	11.179	101.204	124.235	0.00	0.00	C
ATOM	7381	CG2	ILE	A	496	12.655	99.122	124.323	0.00	0.00	C
ATOM	7382	CD1	ILE	A	496	12.236	102.311	124.407	0.00	0.00	C
ATOM	7383	HN	ILE	A	496	10.589	101.333	121.468	0.00	0.00	H
ATOM	7384	HCA	ILE	A	496	13.275	100.421	122.123	0.00	0.00	H
ATOM	7385	HCB	ILE	A	496	10.751	99.308	123.363	0.00	0.00	H
ATOM	7386	HCD1	ILE	A	496	13.117	101.931	124.919	0.00	0.00	H
ATOM	7387	HCD1	ILE	A	496	12.529	102.696	123.432	0.00	0.00	H
ATOM	7388	HCD1	ILE	A	496	11.823	103.132	124.998	0.00	0.00	H
ATOM	7389	HCG1	ILE	A	496	10.323	101.646	123.726	0.00	0.00	H
ATOM	7390	HCG1	ILE	A	496	10.829	100.911	125.229	0.00	0.00	H
ATOM	7391	HCG2	ILE	A	496	12.877	98.174	123.843	0.00	0.00	H
ATOM	7392	HCG2	ILE	A	496	13.594	99.661	124.451	0.00	0.00	H
ATOM	7393	HCG2	ILE	A	496	12.238	98.920	125.309	0.00	0.00	H
ATOM	7394	N	GLY	A	497	13.205	98.376	120.527	0.00	0.00	N
ATOM	7395	CA	GLY	A	497	12.990	97.299	119.594	0.00	0.00	C
ATOM	7396	C	GLY	A	497	14.097	96.624	118.895	0.00	0.00	C
ATOM	7397	O	GLY	A	497	15.297	96.906	119.111	0.00	0.00	O
ATOM	7398	HN	GLY	A	497	14.096	98.677	120.723	0.00	0.00	H
ATOM	7399	HCA	GLY	A	497	12.456	96.507	120.122	0.00	0.00	H
ATOM	7400	HCA	GLY	A	497	12.329	97.690	118.821	0.00	0.00	H
ATOM	7401	N	GLY	A	498	13.705	95.649	118.038	0.00	0.00	N
ATOM	7402	CA	GLY	A	498	14.551	94.707	117.355	0.00	0.00	C
ATOM	7403	C	GLY	A	498	15.009	95.045	115.986	0.00	0.00	C
ATOM	7404	O	GLY	A	498	15.156	96.231	115.605	0.00	0.00	O
ATOM	7405	HN	GLY	A	498	12.744	95.566	117.966	0.00	0.00	H
ATOM	7406	HCA	GLY	A	498	15.441	94.503	117.951	0.00	0.00	H
ATOM	7407	HCA	GLY	A	498	13.988	93.773	117.308	0.00	0.00	H
ATOM	7408	N	PHE	A	499	15.325	94.051	115.121	0.00	0.00	N
ATOM	7409	CA	PHE	A	499	15.828	94.251	113.786	0.00	0.00	C
ATOM	7410	C	PHE	A	499	14.820	94.953	112.951	0.00	0.00	C
ATOM	7411	O	PHE	A	499	15.155	95.916	112.224	0.00	0.00	O
ATOM	7412	CB	PHE	A	499	16.268	92.900	113.151	0.00	0.00	C
ATOM	7413	CG	PHE	A	499	17.097	93.121	111.933	0.00	0.00	C
ATOM	7414	CD1	PHE	A	499	18.506	93.196	112.029	0.00	0.00	C
ATOM	7415	CD2	PHE	A	499	16.496	93.317	110.669	0.00	0.00	C
ATOM	7416	CE1	PHE	A	499	19.295	93.488	110.902	0.00	0.00	C
ATOM	7417	CE2	PHE	A	499	17.282	93.610	109.538	0.00	0.00	C
ATOM	7418	CZ	PHE	A	499	18.680	93.705	109.657	0.00	0.00	C
ATOM	7419	HN	PHE	A	499	15.170	93.140	115.415	0.00	0.00	H
ATOM	7420	HCA	PHE	A	499	16.719	94.885	113.868	0.00	0.00	H
ATOM	7421	HCB	PHE	A	499	16.849	92.342	113.888	0.00	0.00	H
ATOM	7422	HCB	PHE	A	499	15.394	92.287	112.912	0.00	0.00	H
ATOM	7423	HCD1	PHE	A	499	18.964	93.047	112.927	0.00	0.00	H
ATOM	7424	HCD2	PHE	A	499	15.480	93.259	110.567	0.00	0.00	H
ATOM	7425	HCE1	PHE	A	499	20.312	93.542	110.988	0.00	0.00	H
ATOM	7426	HCE2	PHE	A	499	16.833	93.756	108.632	0.00	0.00	H
ATOM	7427	HCZ	PHE	A	499	19.251	93.926	108.840	0.00	0.00	H
ATOM	7428	N	GLU	A	500	13.521	94.599	113.036	0.00	0.00	N
ATOM	7429	CA	GLU	A	500	12.427	95.316	112.447	0.00	0.00	C
ATOM	7430	C	GLU	A	500	12.246	96.696	112.994	0.00	0.00	C
ATOM	7431	O	GLU	A	500	11.514	97.480	112.349	0.00	0.00	O
ATOM	7432	CB	GLU	A	500	11.115	94.468	112.471	0.00	0.00	C
ATOM	7433	CG	GLU	A	500	10.903	93.598	113.738	0.00	0.00	C
ATOM	7434	CD	GLU	A	500	11.728	92.383	113.750	0.00	0.00	C
ATOM	7435	OE1	GLU	A	500	11.567	91.467	112.920	0.00	0.00	O
ATOM	7436	OE2	GLU	A	500	12.665	92.225	114.558	0.00	0.00	O
ATOM	7437	HN	GLU	A	500	13.306	93.829	113.561	0.00	0.00	H
ATOM	7438	HCA	GLU	A	500	12.682	95.437	111.395	0.00	0.00	H

ATOM	7439	HC	GLU	A	500	10.248	95.127	112.366	0.00	0.00		H
ATOM	7440	HC	GLU	A	500	11.099	93.811	111.594	0.00	0.00		H
ATOM	7441	HCG	GLU	A	500	11.106	94.199	114.627	0.00	0.00		H
ATOM	7442	HCG	GLU	A	500	9.866	93.276	113.773	0.00	0.00		H
ATOM	7443	N	ALA	A	501	12.900	97.174	114.083	0.00	0.00		N
ATOM	7444	CA	ALA	A	501	12.858	98.522	114.577	0.00	0.00		C
ATOM	7445	C	ALA	A	501	13.958	99.298	113.961	0.00	0.00		C
ATOM	7446	O	ALA	A	501	13.739	100.463	113.564	0.00	0.00		O
ATOM	7447	CB	ALA	A	501	12.982	98.510	116.114	0.00	0.00		C
ATOM	7448	HN	ALA	A	501	13.544	96.625	114.531	0.00	0.00		H
ATOM	7449	HCA	ALA	A	501	11.901	98.995	114.331	0.00	0.00		H
ATOM	7450	HC	ALA	A	501	13.988	98.248	116.438	0.00	0.00		H
ATOM	7451	HC	ALA	A	501	12.753	99.493	116.519	0.00	0.00		H
ATOM	7452	HC	ALA	A	501	12.281	97.784	116.521	0.00	0.00		H
ATOM	7453	N	TYR	A	502	15.168	98.721	113.768	0.00	0.00		N
ATOM	7454	CA	TYR	A	502	16.183	99.251	112.890	0.00	0.00		C
ATOM	7455	C	TYR	A	502	15.663	99.446	111.492	0.00	0.00		C
ATOM	7456	O	TYR	A	502	15.780	100.562	110.921	0.00	0.00		O
ATOM	7457	CB	TYR	A	502	17.448	98.342	112.959	0.00	0.00		C
ATOM	7458	CG	TYR	A	502	18.500	98.780	112.006	0.00	0.00		C
ATOM	7459	CD1	TYR	A	502	19.177	100.001	112.215	0.00	0.00		C
ATOM	7460	CD2	TYR	A	502	18.789	98.030	110.842	0.00	0.00		C
ATOM	7461	CE1	TYR	A	502	20.084	100.489	111.260	0.00	0.00		C
ATOM	7462	CE2	TYR	A	502	19.688	98.529	109.883	0.00	0.00		C
ATOM	7463	CZ	TYR	A	502	20.320	99.769	110.078	0.00	0.00		C
ATOM	7464	OH	TYR	A	502	21.125	100.285	109.122	0.00	0.00		O
ATOM	7465	HN	TYR	A	502	15.303	97.883	114.232	0.00	0.00		H
ATOM	7466	HCA	TYR	A	502	16.468	100.233	113.280	0.00	0.00		H
ATOM	7467	HC	TYR	A	502	17.856	98.360	113.973	0.00	0.00		H
ATOM	7468	HC	TYR	A	502	17.165	97.309	112.755	0.00	0.00		H
ATOM	7469	HCD1	TYR	A	502	18.993	100.552	113.055	0.00	0.00		H
ATOM	7470	HCD2	TYR	A	502	18.324	97.134	110.671	0.00	0.00		H
ATOM	7471	HCE1	TYR	A	502	20.561	101.373	111.424	0.00	0.00		H
ATOM	7472	HCE2	TYR	A	502	19.859	98.001	109.029	0.00	0.00		H
ATOM	7473	HOH	TYR	A	502	21.435	101.197	109.212	0.00	0.00		H
ATOM	7474	N	THR	A	503	15.025	98.437	110.849	0.00	0.00		N
ATOM	7475	CA	THR	A	503	14.357	98.548	109.573	0.00	0.00		C
ATOM	7476	C	THR	A	503	13.267	99.563	109.613	0.00	0.00		C
ATOM	7477	O	THR	A	503	13.217	100.419	108.699	0.00	0.00		O
ATOM	7478	CB	THR	A	503	13.836	97.176	109.060	0.00	0.00		C
ATOM	7479	CG2	THR	A	503	13.348	97.193	107.592	0.00	0.00		C
ATOM	7480	OG1	THR	A	503	14.880	96.207	109.137	0.00	0.00		O
ATOM	7481	HN	THR	A	503	15.027	97.588	111.291	0.00	0.00		H
ATOM	7482	HCA	THR	A	503	15.114	98.877	108.856	0.00	0.00		H
ATOM	7483	HC	THR	A	503	13.010	96.854	109.692	0.00	0.00		H
ATOM	7484	HCG2	THR	A	503	14.152	97.511	106.926	0.00	0.00		H
ATOM	7485	HCG2	THR	A	503	13.023	96.194	107.293	0.00	0.00		H
ATOM	7486	HCG2	THR	A	503	12.502	97.873	107.474	0.00	0.00		H
ATOM	7487	HOG1	THR	A	503	14.468	95.358	108.870	0.00	0.00		H
ATOM	7488	N	GLY	A	504	12.365	99.625	110.625	0.00	0.00		N
ATOM	7489	CA	GLY	A	504	11.489	100.732	110.894	0.00	0.00		C
ATOM	7490	C	GLY	A	504	12.125	102.064	110.795	0.00	0.00		C
ATOM	7491	O	GLY	A	504	11.633	102.920	110.033	0.00	0.00		O
ATOM	7492	HN	GLY	A	504	12.256	98.873	111.208	0.00	0.00		H
ATOM	7493	HCA	GLY	A	504	10.641	100.671	110.214	0.00	0.00		H
ATOM	7494	HCA	GLY	A	504	11.112	100.622	111.910	0.00	0.00		H
ATOM	7495	N	GLY	A	505	13.255	102.331	111.480	0.00	0.00		N
ATOM	7496	CA	GLY	A	505	14.093	103.486	111.339	0.00	0.00		C
ATOM	7497	C	GLY	A	505	14.501	103.798	109.948	0.00	0.00		C
ATOM	7498	O	GLY	A	505	14.280	104.942	109.483	0.00	0.00		O
ATOM	7499	HN	GLY	A	505	13.490	101.687	112.143	0.00	0.00		H
ATOM	7500	HCA	GLY	A	505	13.575	104.339	111.777	0.00	0.00		H
ATOM	7501	HCA	GLY	A	505	14.998	103.312	111.921	0.00	0.00		H
ATOM	7502	N	LEU	A	506	15.094	102.855	109.177	0.00	0.00		N
ATOM	7503	CA	LEU	A	506	15.398	103.029	107.771	0.00	0.00		C
ATOM	7504	C	LEU	A	506	14.208	103.444	106.962	0.00	0.00		C
ATOM	7505	O	LEU	A	506	14.296	104.428	106.185	0.00	0.00		O
ATOM	7506	CB	LEU	A	506	16.041	101.755	107.146	0.00	0.00		C
ATOM	7507	CG	LEU	A	506	17.453	101.354	107.676	0.00	0.00		C
ATOM	7508	CD1	LEU	A	506	17.850	99.970	107.098	0.00	0.00		C
ATOM	7509	CD2	LEU	A	506	18.553	102.392	107.320	0.00	0.00		C
ATOM	7510	HN	LEU	A	506	15.314	102.034	109.631	0.00	0.00		H
ATOM	7511	HCA	LEU	A	506	16.123	103.842	107.697	0.00	0.00		H
ATOM	7512	HC	LEU	A	506	15.355	100.921	107.304	0.00	0.00		H
ATOM	7513	HC	LEU	A	506	16.122	101.896	106.063	0.00	0.00		H
ATOM	7514	HCD1	LEU	A	506	17.850	99.987	106.006	0.00	0.00		H
ATOM	7515	HCD1	LEU	A	506	18.846	99.690	107.435	0.00	0.00		H
ATOM	7516	HCD1	LEU	A	506	17.153	99.201	107.435	0.00	0.00		H
ATOM	7517	HCD2	LEU	A	506	18.617	102.531	106.240	0.00	0.00		H
ATOM	7518	HCD2	LEU	A	506	18.346	103.353	107.781	0.00	0.00		H

ATOM	7519	HCD2	LEU	A	506	19.522	102.058	107.691	0.00	0.00	H
ATOM	7520	HCG	LEU	A	506	17.409	101.262	108.767	0.00	0.00	H
ATOM	7521	N	GLU	A	507	13.029	102.787	107.078	0.00	0.00	N
ATOM	7522	CA	GLU	A	507	11.801	103.187	106.444	0.00	0.00	C
ATOM	7523	C	GLU	A	507	11.394	104.570	106.827	0.00	0.00	C
ATOM	7524	O	GLU	A	507	11.155	105.382	105.908	0.00	0.00	O
ATOM	7525	CB	GLU	A	507	10.651	102.177	106.712	0.00	0.00	C
ATOM	7526	CG	GLU	A	507	10.793	100.830	105.945	0.00	0.00	C
ATOM	7527	CD	GLU	A	507	9.591	99.977	105.962	0.00	0.00	C
ATOM	7528	OE1	GLU	A	507	8.539	100.307	106.554	0.00	0.00	O
ATOM	7529	OE2	GLU	A	507	9.591	98.900	105.330	0.00	0.00	O
ATOM	7530	HN	GLU	A	507	13.033	102.008	107.635	0.00	0.00	H
ATOM	7531	HCA	GLU	A	507	11.982	103.183	105.364	0.00	0.00	H
ATOM	7532	HCB	GLU	A	507	10.584	101.971	107.783	0.00	0.00	H
ATOM	7533	HCB	GLU	A	507	9.708	102.639	106.401	0.00	0.00	H
ATOM	7534	HCG	GLU	A	507	11.019	101.032	104.896	0.00	0.00	H
ATOM	7535	HCG	GLU	A	507	11.622	100.259	106.367	0.00	0.00	H
ATOM	7536	N	LEU	A	508	11.310	104.986	108.113	0.00	0.00	N
ATOM	7537	CA	LEU	A	508	11.038	106.334	108.553	0.00	0.00	C
ATOM	7538	C	LEU	A	508	11.950	107.327	107.917	0.00	0.00	C
ATOM	7539	O	LEU	A	508	11.441	108.342	107.384	0.00	0.00	O
ATOM	7540	CB	LEU	A	508	11.114	106.456	110.106	0.00	0.00	C
ATOM	7541	CG	LEU	A	508	9.990	105.728	110.910	0.00	0.00	C
ATOM	7542	CD1	LEU	A	508	10.386	105.634	112.409	0.00	0.00	C
ATOM	7543	CD2	LEU	A	508	8.602	106.411	110.773	0.00	0.00	C
ATOM	7544	HN	LEU	A	508	11.444	104.316	108.777	0.00	0.00	H
ATOM	7545	HCA	LEU	A	508	10.019	106.576	108.242	0.00	0.00	H
ATOM	7546	HCB	LEU	A	508	12.085	106.066	110.419	0.00	0.00	H
ATOM	7547	HCB	LEU	A	508	11.094	107.514	110.387	0.00	0.00	H
ATOM	7548	HCD1	LEU	A	508	11.316	105.076	112.525	0.00	0.00	H
ATOM	7549	HCD1	LEU	A	508	10.523	106.630	112.837	0.00	0.00	H
ATOM	7550	HCD1	LEU	A	508	9.616	105.114	112.976	0.00	0.00	H
ATOM	7551	HCD2	LEU	A	508	8.253	106.379	109.742	0.00	0.00	H
ATOM	7552	HCD2	LEU	A	508	7.862	105.892	111.386	0.00	0.00	H
ATOM	7553	HCD2	LEU	A	508	8.649	107.454	111.096	0.00	0.00	H
ATOM	7554	HCG	LEU	A	508	9.890	104.708	110.534	0.00	0.00	H
ATOM	7555	N	MET	A	509	13.293	107.126	107.862	0.00	0.00	N
ATOM	7556	CA	MET	A	509	14.208	107.948	107.109	0.00	0.00	C
ATOM	7557	C	MET	A	509	13.803	108.061	105.681	0.00	0.00	C
ATOM	7558	O	MET	A	509	13.530	109.200	105.234	0.00	0.00	O
ATOM	7559	CB	MET	A	509	15.684	107.451	107.190	0.00	0.00	C
ATOM	7560	CG	MET	A	509	16.420	107.748	108.519	0.00	0.00	C
ATOM	7561	SD	MET	A	509	16.527	109.487	109.016	0.00	0.00	S
ATOM	7562	CE	MET	A	509	17.502	110.147	107.646	0.00	0.00	C
ATOM	7563	HN	MET	A	509	13.639	106.381	108.356	0.00	0.00	H
ATOM	7564	HCA	MET	A	509	14.164	108.947	107.548	0.00	0.00	H
ATOM	7565	HCB	MET	A	509	15.706	106.372	107.031	0.00	0.00	H
ATOM	7566	HCB	MET	A	509	16.273	107.890	106.381	0.00	0.00	H
ATOM	7567	HCE	MET	A	509	18.411	109.560	107.510	0.00	0.00	H
ATOM	7568	HCE	MET	A	509	16.918	110.141	106.727	0.00	0.00	H
ATOM	7569	HCE	MET	A	509	17.775	111.177	107.873	0.00	0.00	H
ATOM	7570	HCG	MET	A	509	15.911	107.212	109.314	0.00	0.00	H
ATOM	7571	HCG	MET	A	509	17.436	107.359	108.451	0.00	0.00	H
ATOM	7572	N	GLU	A	510	13.695	106.973	104.880	0.00	0.00	N
ATOM	7573	CA	GLU	A	510	13.309	107.017	103.489	0.00	0.00	C
ATOM	7574	C	GLU	A	510	12.038	107.768	103.280	0.00	0.00	C
ATOM	7575	O	GLU	A	510	11.989	108.688	102.430	0.00	0.00	O
ATOM	7576	CB	GLU	A	510	13.220	105.582	102.890	0.00	0.00	C
ATOM	7577	CG	GLU	A	510	14.596	104.884	102.683	0.00	0.00	C
ATOM	7578	CD	GLU	A	510	15.477	105.579	101.729	0.00	0.00	C
ATOM	7579	OE1	GLU	A	510	16.588	106.036	102.064	0.00	0.00	O
ATOM	7580	OE2	GLU	A	510	15.136	105.785	100.545	0.00	0.00	O
ATOM	7581	HN	GLU	A	510	13.891	106.121	105.280	0.00	0.00	H
ATOM	7582	HCA	GLU	A	510	14.093	107.560	102.953	0.00	0.00	H
ATOM	7583	HCB	GLU	A	510	12.603	104.957	103.542	0.00	0.00	H
ATOM	7584	HCB	GLU	A	510	12.717	105.623	101.918	0.00	0.00	H
ATOM	7585	HCG	GLU	A	510	15.107	104.793	103.644	0.00	0.00	H
ATOM	7586	HCG	GLU	A	510	14.429	103.874	102.304	0.00	0.00	H
ATOM	7587	N	GLY	A	511	10.974	107.535	104.076	0.00	0.00	N
ATOM	7588	CA	GLY	A	511	9.736	108.246	104.072	0.00	0.00	C
ATOM	7589	C	GLY	A	511	9.836	109.718	104.166	0.00	0.00	C
ATOM	7590	O	GLY	A	511	8.894	110.380	103.674	0.00	0.00	O
ATOM	7591	HN	GLY	A	511	11.057	106.819	104.700	0.00	0.00	H
ATOM	7592	HCA	GLY	A	511	9.197	107.975	103.161	0.00	0.00	H
ATOM	7593	HCA	GLY	A	511	9.144	107.902	104.920	0.00	0.00	H
ATOM	7594	N	ARG	A	512	10.917	110.374	104.663	0.00	0.00	N
ATOM	7595	CA	ARG	A	512	11.058	111.807	104.668	0.00	0.00	C
ATOM	7596	C	ARG	A	512	11.179	112.349	103.287	0.00	0.00	C
ATOM	7597	O	ARG	A	512	10.978	113.573	103.099	0.00	0.00	O
ATOM	7598	CB	ARG	A	512	12.287	112.238	105.519	0.00	0.00	C



ATOM	7599	CG	ARG	A	512	12.123	111.983	107.044	0.00	0.00	C
ATOM	7600	CD	ARG	A	512	13.443	112.225	107.808	0.00	0.00	C
ATOM	7601	NE	ARG	A	512	13.256	112.270	109.225	0.00	0.00	N
ATOM	7602	CZ	ARG	A	512	14.273	112.431	110.081	0.00	0.00	C
ATOM	7603	NH1	ARG	A	512	15.546	112.546	109.721	0.00	0.00	N
ATOM	7604	NH2	ARG	A	512	14.146	112.541	111.389	0.00	0.00	N
ATOM	7605	HN	ARG	A	512	11.687	109.870	104.939	0.00	0.00	H
ATOM	7606	HNE	ARG	A	512	12.356	112.255	109.564	0.00	0.00	H
ATOM	7607	HNH1	ARG	A	512	15.816	112.454	108.801	0.00	0.00	H
ATOM	7608	HNH1	ARG	A	512	16.185	112.730	110.411	0.00	0.00	H
ATOM	7609	HNH2	ARG	A	512	13.335	112.470	111.883	0.00	0.00	H
ATOM	7610	HNH2	ARG	A	512	14.958	112.725	111.848	0.00	0.00	H
ATOM	7611	HCA	ARG	A	512	10.160	112.243	105.119	0.00	0.00	H
ATOM	7612	HCB	ARG	A	512	13.175	111.722	105.146	0.00	0.00	H
ATOM	7613	HCB	ARG	A	512	12.458	113.310	105.383	0.00	0.00	H
ATOM	7614	HCD	ARG	A	512	14.148	111.429	107.547	0.00	0.00	H
ATOM	7615	HCD	ARG	A	512	13.871	113.180	107.486	0.00	0.00	H
ATOM	7616	HCG	ARG	A	512	11.352	112.655	107.422	0.00	0.00	H
ATOM	7617	HCG	ARG	A	512	11.796	110.957	107.225	0.00	0.00	H
ATOM	7618	N	LYS	A	513	11.469	111.539	102.240	0.00	0.00	N
ATOM	7619	CA	LYS	A	513	11.484	111.925	100.863	0.00	0.00	C
ATOM	7620	C	LYS	A	513	10.099	112.020	100.312	0.00	0.00	C
ATOM	7621	O	LYS	A	513	9.960	112.511	99.167	0.00	0.00	O
ATOM	7622	CB	LYS	A	513	12.360	110.898	100.080	0.00	0.00	C
ATOM	7623	CG	LYS	A	513	13.824	110.765	100.599	0.00	0.00	C
ATOM	7624	CD	LYS	A	513	14.570	109.549	99.981	0.00	0.00	C
ATOM	7625	CE	LYS	A	513	15.991	109.364	100.566	0.00	0.00	C
ATOM	7626	NZ	LYS	A	513	16.652	108.193	99.982	0.00	0.00	N
ATOM	7627	HN	LYS	A	513	11.634	110.608	102.405	0.00	0.00	H
ATOM	7628	HNZ	LYS	A	513	16.165	107.355	100.247	0.00	0.00	H
ATOM	7629	HNZ	LYS	A	513	16.666	108.267	98.966	0.00	0.00	H
ATOM	7630	HNZ	LYS	A	513	17.607	108.128	100.332	0.00	0.00	H
ATOM	7631	HCA	LYS	A	513	11.954	112.910	100.767	0.00	0.00	H
ATOM	7632	HCB	LYS	A	513	11.875	109.921	100.135	0.00	0.00	H
ATOM	7633	HCB	LYS	A	513	12.396	111.186	99.025	0.00	0.00	H
ATOM	7634	HCD	LYS	A	513	13.996	108.638	100.174	0.00	0.00	H
ATOM	7635	HCD	LYS	A	513	14.642	109.684	98.899	0.00	0.00	H
ATOM	7636	HCE	LYS	A	513	16.598	110.248	100.357	0.00	0.00	H
ATOM	7637	HCE	LYS	A	513	15.938	109.226	101.649	0.00	0.00	H
ATOM	7638	HCG	LYS	A	513	14.369	111.685	100.369	0.00	0.00	H
ATOM	7639	HCG	LYS	A	513	13.822	110.643	101.685	0.00	0.00	H
ATOM	7640	N	GLN	A	514	9.005	111.602	101.005	0.00	0.00	N
ATOM	7641	CA	GLN	A	514	7.630	111.688	100.585	0.00	0.00	C
ATOM	7642	C	GLN	A	514	6.852	112.488	101.538	0.00	0.00	C
ATOM	7643	O	GLN	A	514	6.128	113.381	101.116	0.00	0.00	O
ATOM	7644	CB	GLN	A	514	7.038	110.250	100.454	0.00	0.00	C
ATOM	7645	CG	GLN	A	514	7.543	109.414	99.241	0.00	0.00	C
ATOM	7646	CD	GLN	A	514	8.920	108.902	99.365	0.00	0.00	C
ATOM	7647	NE2	GLN	A	514	9.845	109.131	98.428	0.00	0.00	N
ATOM	7648	OE1	GLN	A	514	9.264	108.202	100.340	0.00	0.00	O
ATOM	7649	HN	GLN	A	514	9.128	111.205	101.872	0.00	0.00	H
ATOM	7650	HNE2	GLN	A	514	9.631	109.664	97.650	0.00	0.00	H
ATOM	7651	HNE2	GLN	A	514	10.729	108.755	98.537	0.00	0.00	H
ATOM	7652	HCA	GLN	A	514	7.549	112.162	99.600	0.00	0.00	H
ATOM	7653	HCB	GLN	A	514	7.229	109.687	101.371	0.00	0.00	H
ATOM	7654	HCB	GLN	A	514	5.951	110.333	100.346	0.00	0.00	H
ATOM	7655	HCG	GLN	A	514	6.897	108.540	99.135	0.00	0.00	H
ATOM	7656	HCG	GLN	A	514	7.443	110.003	98.327	0.00	0.00	H
ATOM	7657	N	PHE	A	515	6.914	112.244	102.837	0.00	0.00	N
ATOM	7658	CA	PHE	A	515	6.127	112.834	103.887	0.00	0.00	C
ATOM	7659	C	PHE	A	515	6.984	113.725	104.718	0.00	0.00	C
ATOM	7660	O	PHE	A	515	7.663	113.261	105.669	0.00	0.00	O
ATOM	7661	CB	PHE	A	515	5.476	111.712	104.753	0.00	0.00	C
ATOM	7662	CG	PHE	A	515	4.503	110.863	104.021	0.00	0.00	C
ATOM	7663	CD1	PHE	A	515	4.938	109.717	103.317	0.00	0.00	C
ATOM	7664	CD2	PHE	A	515	3.125	111.177	104.027	0.00	0.00	C
ATOM	7665	CE1	PHE	A	515	4.025	108.928	102.595	0.00	0.00	C
ATOM	7666	CE2	PHE	A	515	2.206	110.366	103.338	0.00	0.00	C
ATOM	7667	CZ	PHE	A	515	2.656	109.247	102.614	0.00	0.00	C
ATOM	7668	HN	PHE	A	515	7.557	111.598	103.113	0.00	0.00	H
ATOM	7669	HCA	PHE	A	515	5.311	113.439	103.474	0.00	0.00	H
ATOM	7670	HCB	PHE	A	515	6.262	111.073	105.159	0.00	0.00	H
ATOM	7671	HCB	PHE	A	515	4.973	112.171	105.610	0.00	0.00	H
ATOM	7672	HCD1	PHE	A	515	5.924	109.448	103.331	0.00	0.00	H
ATOM	7673	HCD2	PHE	A	515	2.782	111.995	104.535	0.00	0.00	H
ATOM	7674	HCE1	PHE	A	515	4.354	108.114	102.069	0.00	0.00	H
ATOM	7675	HCE2	PHE	A	515	1.211	110.597	103.363	0.00	0.00	H
ATOM	7676	HCZ	PHE	A	515	1.989	108.663	102.105	0.00	0.00	H
ATOM	7677	N	ASP	A	516	6.975	115.061	104.510	0.00	0.00	N
ATOM	7678	CA	ASP	A	516	7.655	116.062	105.282	0.00	0.00	C

ATOM	7679	C	ASP	A	516	7.291	115.992	106.724	0.00	0.00	
ATOM	7680	O	ASP	A	516	8.150	116.231	107.610	0.00	0.00	
ATOM	7681	CB	ASP	A	516	7.365	117.464	104.657	0.00	0.00	
ATOM	7682	CG	ASP	A	516	5.955	117.717	104.293	0.00	0.00	
ATOM	7683	OD1	ASP	A	516	5.434	117.141	103.310	0.00	0.00	
ATOM	7684	OD2	ASP	A	516	5.256	118.527	104.936	0.00	0.00	
ATOM	7685	HN	ASP	A	516	6.391	115.431	103.840	0.00	0.00	
ATOM	7686	HCA	ASP	A	516	8.731	115.874	105.201	0.00	0.00	
ATOM	7687	HC	ASP	A	516	7.702	118.243	105.346	0.00	0.00	
ATOM	7688	HC	ASP	A	516	7.955	117.575	103.744	0.00	0.00	
ATOM	7689	N	GLU	A	517	6.064	115.544	107.075	0.00	0.00	
ATOM	7690	CA	GLU	A	517	5.598	115.254	108.388	0.00	0.00	
ATOM	7691	C	GLU	A	517	6.558	114.448	109.192	0.00	0.00	
ATOM	7692	O	GLU	A	517	6.664	114.728	110.413	0.00	0.00	
ATOM	7693	CB	GLU	A	517	4.216	114.534	108.316	0.00	0.00	
ATOM	7694	CG	GLU	A	517	3.110	115.278	107.498	0.00	0.00	
ATOM	7695	CD	GLU	A	517	2.986	114.856	106.087	0.00	0.00	
ATOM	7696	OE1	GLU	A	517	3.936	114.957	105.282	0.00	0.00	
ATOM	7697	OE2	GLU	A	517	1.916	114.386	105.649	0.00	0.00	
ATOM	7698	HN	GLU	A	517	5.424	115.386	106.382	0.00	0.00	
ATOM	7699	HCA	GLU	A	517	5.446	116.221	108.868	0.00	0.00	
ATOM	7700	HC	GLU	A	517	4.348	113.523	107.918	0.00	0.00	
ATOM	7701	HC	GLU	A	517	3.849	114.423	109.343	0.00	0.00	
ATOM	7702	HCG	GLU	A	517	2.146	115.106	107.985	0.00	0.00	
ATOM	7703	HCG	GLU	A	517	3.286	116.355	107.517	0.00	0.00	
ATOM	7704	N	LEU	A	518	7.329	113.492	108.605	0.00	0.00	
ATOM	7705	CA	LEU	A	518	8.222	112.593	109.284	0.00	0.00	
ATOM	7706	C	LEU	A	518	9.570	113.181	109.545	0.00	0.00	
ATOM	7707	O	LEU	A	518	10.455	112.445	110.062	0.00	0.00	
ATOM	7708	CB	LEU	A	518	8.312	111.253	108.483	0.00	0.00	
ATOM	7709	CG	LEU	A	518	6.960	110.525	108.189	0.00	0.00	
ATOM	7710	CD1	LEU	A	518	7.201	109.252	107.333	0.00	0.00	
ATOM	7711	CD2	LEU	A	518	6.169	110.147	109.467	0.00	0.00	
ATOM	7712	HN	LEU	A	518	7.324	113.429	107.643	0.00	0.00	
ATOM	7713	HCA	LEU	A	518	7.812	112.357	110.269	0.00	0.00	
ATOM	7714	HC	LEU	A	518	8.807	111.462	107.530	0.00	0.00	
ATOM	7715	HC	LEU	A	518	8.953	110.556	109.032	0.00	0.00	
ATOM	7716	HCD1	LEU	A	518	7.745	109.501	106.422	0.00	0.00	
ATOM	7717	HCD1	LEU	A	518	7.783	108.514	107.891	0.00	0.00	
ATOM	7718	HCD1	LEU	A	518	6.250	108.800	107.045	0.00	0.00	
ATOM	7719	HCD2	LEU	A	518	5.876	111.040	110.013	0.00	0.00	
ATOM	7720	HCD2	LEU	A	518	5.256	109.615	109.200	0.00	0.00	
ATOM	7721	HCD2	LEU	A	518	6.768	109.513	110.124	0.00	0.00	
ATOM	7722	HCG	LEU	A	518	6.329	111.200	107.605	0.00	0.00	
ATOM	7723	N	CYS	A	519	9.854	114.490	109.294	0.00	0.00	
ATOM	7724	CA	CYS	A	519	11.032	115.193	109.744	0.00	0.00	
ATOM	7725	C	CYS	A	519	10.968	115.503	111.209	0.00	0.00	
ATOM	7726	O	CYS	A	519	11.078	116.670	111.658	0.00	0.00	
ATOM	7727	CB	CYS	A	519	11.268	116.428	108.832	0.00	0.00	
ATOM	7728	SG	CYS	A	519	11.490	115.973	107.096	0.00	0.00	
ATOM	7729	HN	CYS	A	519	9.217	115.010	108.791	0.00	0.00	
ATOM	7730	HCA	CYS	A	519	11.907	114.554	109.610	0.00	0.00	
ATOM	7731	HC	CYS	A	519	10.428	117.121	108.908	0.00	0.00	
ATOM	7732	HC	CYS	A	519	12.175	116.947	109.144	0.00	0.00	
ATOM	7733	HSG	CYS	A	519	12.491	115.102	107.394	0.00	0.00	
ATOM	7734	N	ILE	A	520	10.817	114.448	112.040	0.00	0.00	
ATOM	7735	CA	ILE	A	520	10.796	114.393	113.479	0.00	0.00	
ATOM	7736	C	ILE	A	520	11.867	113.469	113.978	0.00	0.00	
ATOM	7737	O	ILE	A	520	12.043	112.429	113.291	0.00	0.00	
ATOM	7738	CB	ILE	A	520	9.375	113.997	114.015	0.00	0.00	
ATOM	7739	CG1	ILE	A	520	8.904	112.552	113.638	0.00	0.00	
ATOM	7740	CG2	ILE	A	520	8.319	115.049	113.567	0.00	0.00	
ATOM	7741	CD1	ILE	A	520	7.672	112.052	114.427	0.00	0.00	
ATOM	7742	HN	ILE	A	520	10.703	113.635	111.555	0.00	0.00	
ATOM	7743	HCA	ILE	A	520	11.005	115.394	113.848	0.00	0.00	
ATOM	7744	HC	ILE	A	520	9.434	114.042	115.106	0.00	0.00	
ATOM	7745	HCD1	ILE	A	520	7.920	111.941	115.485	0.00	0.00	
ATOM	7746	HCD1	ILE	A	520	6.829	112.733	114.334	0.00	0.00	
ATOM	7747	HCD1	ILE	A	520	7.366	111.082	114.032	0.00	0.00	
ATOM	7748	HCG1	ILE	A	520	8.687	112.504	112.570	0.00	0.00	
ATOM	7749	HCG1	ILE	A	520	9.697	111.830	113.838	0.00	0.00	
ATOM	7750	HCG2	ILE	A	520	8.714	116.057	113.663	0.00	0.00	
ATOM	7751	HCG2	ILE	A	520	8.051	114.898	112.524	0.00	0.00	
ATOM	7752	HCG2	ILE	A	520	7.415	114.984	114.174	0.00	0.00	
ATOM	7753	N	PRO	A	521	12.668	113.659	115.078	0.00	0.00	
ATOM	7754	CA	PRO	A	521	13.687	112.710	115.481	0.00	0.00	
ATOM	7755	C	PRO	A	521	13.234	111.392	115.920	0.00	0.00	
ATOM	7756	O	PRO	A	521	12.086	111.224	116.327	0.00	0.00	
ATOM	7757	CB	PRO	A	521	14.479	113.411	116.618	0.00	0.00	
ATOM	7758	CG	PRO	A	521	14.048	114.876	116.531	0.00	0.00	



ATOM	7839	CA	PRO	A	526	18.247	97.780	121.019	0.00	0.00	C
ATOM	7840	C	PRO	A	526	17.611	96.901	121.991	0.00	0.00	C
ATOM	7841	O	PRO	A	526	18.094	96.771	123.111	0.00	0.00	O
ATOM	7842	CB	PRO	A	526	19.770	97.513	120.877	0.00	0.00	C
ATOM	7843	CG	PRO	A	526	20.387	98.532	121.835	0.00	0.00	C
ATOM	7844	CD	PRO	A	526	19.430	99.720	121.692	0.00	0.00	C
ATOM	7845	HCA	PRO	A	526	17.787	97.650	120.035	0.00	0.00	H
ATOM	7846	HCB	PRO	A	526	20.062	96.489	121.123	0.00	0.00	H
ATOM	7847	HCB	PRO	A	526	20.109	97.740	119.865	0.00	0.00	H
ATOM	7848	HCD	PRO	A	526	19.434	100.302	122.615	0.00	0.00	H
ATOM	7849	HCD	PRO	A	526	19.734	100.347	120.850	0.00	0.00	H
ATOM	7850	HCG	PRO	A	526	20.377	98.148	122.859	0.00	0.00	H
ATOM	7851	HCG	PRO	A	526	21.405	98.805	121.562	0.00	0.00	H
ATOM	7852	N	ALA	A	527	16.510	96.259	121.653	0.00	0.00	N
ATOM	7853	CA	ALA	A	527	15.818	95.291	122.445	0.00	0.00	C
ATOM	7854	C	ALA	A	527	15.550	94.084	121.632	0.00	0.00	C
ATOM	7855	O	ALA	A	527	14.914	94.160	120.557	0.00	0.00	O
ATOM	7856	CB	ALA	A	527	14.542	95.936	123.009	0.00	0.00	C
ATOM	7857	HN	ALA	A	527	16.126	96.472	120.801	0.00	0.00	H
ATOM	7858	HCA	ALA	A	527	16.429	94.994	123.296	0.00	0.00	H
ATOM	7859	HCB	ALA	A	527	14.806	96.800	123.621	0.00	0.00	H
ATOM	7860	HCB	ALA	A	527	13.913	96.268	122.189	0.00	0.00	H
ATOM	7861	HCB	ALA	A	527	13.992	95.223	123.627	0.00	0.00	H
ATOM	7862	N	THR	A	528	16.012	92.899	122.069	0.00	0.00	N
ATOM	7863	CA	THR	A	528	15.991	91.659	121.347	0.00	0.00	C
ATOM	7864	C	THR	A	528	16.605	90.619	122.191	0.00	0.00	C
ATOM	7865	O	THR	A	528	17.631	90.837	122.878	0.00	0.00	O
ATOM	7866	CB	THR	A	528	16.657	91.626	119.925	0.00	0.00	C
ATOM	7867	CG2	THR	A	528	18.061	92.258	119.875	0.00	0.00	C
ATOM	7868	OG1	THR	A	528	16.776	90.278	119.433	0.00	0.00	O
ATOM	7869	HN	THR	A	528	16.316	92.897	122.983	0.00	0.00	H
ATOM	7870	HCA	THR	A	528	14.933	91.408	121.210	0.00	0.00	H
ATOM	7871	HCB	THR	A	528	16.016	92.172	119.226	0.00	0.00	H
ATOM	7872	HCG2	THR	A	528	18.728	91.740	120.557	0.00	0.00	H
ATOM	7873	HCG2	THR	A	528	18.470	92.179	118.870	0.00	0.00	H
ATOM	7874	HCG2	THR	A	528	18.015	93.312	120.148	0.00	0.00	H
ATOM	7875	HOG1	THR	A	528	17.239	90.331	118.579	0.00	0.00	H
ATOM	7876	N	VAL	A	529	16.076	89.392	122.089	0.00	0.00	N
ATOM	7877	CA	VAL	A	529	16.593	88.190	122.642	0.00	0.00	C
ATOM	7878	C	VAL	A	529	17.917	87.838	122.061	0.00	0.00	C
ATOM	7879	O	VAL	A	529	18.785</					

ATOM	7919	C	ASN	A	532	20.791	92.489	116.052	0.00	0.00		C
ATOM	7920	O	ASN	A	532	20.586	92.621	114.825	0.00	0.00		O
ATOM	7921	CB	ASN	A	532	20.357	89.968	115.884	0.00	0.00		C
ATOM	7922	CG	ASN	A	532	18.891	90.137	115.873	0.00	0.00		C
ATOM	7923	ND2	ASN	A	532	18.211	90.088	114.721	0.00	0.00		N
ATOM	7924	OD1	ASN	A	532	18.242	90.321	116.929	0.00	0.00		O
ATOM	7925	HN	ASN	A	532	20.111	91.010	118.291	0.00	0.00		H
ATOM	7926	HND2	ASN	A	532	18.679	89.965	113.893	0.00	0.00		H
ATOM	7927	HND2	ASN	A	532	17.250	90.182	114.732	0.00	0.00		H
ATOM	7928	HCA	ASN	A	532	22.208	90.993	116.250	0.00	0.00		H
ATOM	7929	HCN	ASN	A	532	20.707	89.854	114.857	0.00	0.00		H
ATOM	7930	HCN	ASN	A	532	20.581	89.030	116.397	0.00	0.00		H
ATOM	7931	N	VAL	A	533	20.727	93.580	116.858	0.00	0.00		N
ATOM	7932	CA	VAL	A	533	20.492	94.933	116.407	0.00	0.00		C
ATOM	7933	C	VAL	A	533	21.801	95.538	115.999	0.00	0.00		C
ATOM	7934	O	VAL	A	533	22.674	95.670	116.897	0.00	0.00		O
ATOM	7935	CB	VAL	A	533	19.723	95.797	117.462	0.00	0.00		C
ATOM	7936	CG1	VAL	A	533	19.668	97.309	117.078	0.00	0.00		C
ATOM	7937	CG2	VAL	A	533	18.266	95.289	117.639	0.00	0.00		C
ATOM	7938	HN	VAL	A	533	20.917	93.446	117.799	0.00	0.00		H
ATOM	7939	HCA	VAL	A	533	19.814	94.894	115.555	0.00	0.00		H
ATOM	7940	HCN	VAL	A	533	20.238	95.700	118.423	0.00	0.00		H
ATOM	7941	HCG1	VAL	A	533	20.657	97.764	117.165	0.00	0.00		H
ATOM	7942	HCG1	VAL	A	533	19.318	97.435	116.052	0.00	0.00		H
ATOM	7943	HCG1	VAL	A	533	18.991	97.861	117.733	0.00	0.00		H
ATOM	7944	HCG2	VAL	A	533	18.237	94.208	117.746	0.00	0.00		H
ATOM	7945	HCG2	VAL	A	533	17.808	95.731	118.524	0.00	0.00		H
ATOM	7946	HCG2	VAL	A	533	17.666	95.554	116.768	0.00	0.00		H
ATOM	7947	N	PRO	A	534	22.091	95.960	114.727	0.00	0.00		N
ATOM	7948	CA	PRO	A	534	23.328	96.609	114.370	0.00	0.00		C
ATOM	7949	C	PRO	A	534	23.654	97.804	115.138	0.00	0.00		C
ATOM	7950	O	PRO	A	534	22.830	98.704	115.215	0.00	0.00		O
ATOM	7951	CB	PRO	A	534	23.211	96.920	112.855	0.00	0.00		C
ATOM	7952	CG	PRO	A	534	22.134	95.945	112.378	0.00	0.00		C
ATOM	7953	CD	PRO	A	534	21.224	95.807	113.597	0.00	0.00		C
ATOM	7954	HCA	PRO	A	534	24.117	95.869	114.506	0.00	0.00		H
ATOM	7955	HCN	PRO	A	534	22.867	97.943	112.672	0.00	0.00		H
ATOM	7956	HCN	PRO	A	534	24.159	96.765	112.332	0.00	0.00		H
ATOM	7957	HCD	PRO	A	534	20.461	96.592	113.605	0.00	0.00		H
ATOM	7958	HCD	PRO	A	534	20.744	94.830	113.543	0.00	0.00		H
ATOM	7959	HCG	PRO	A	534	21.571	96.328	111.528	0.00	0.00		H
ATOM	7960	HCG	PRO	A	534	22.582	94.979	112.127	0.00	0.00		H
ATOM	7961	N	GLY	A	535	24.835	97.902	115.720	0.00	0.00		N
ATOM	7962	CA	GLY	A	535	25.367	99.051	116.393	0.00	0.00		C
ATOM	7963	C	GLY	A	535	25.592	98.870	117.838	0.00	0.00		C
ATOM	7964	O	GLY	A	535	26.229	99.780	118.417	0.00	0.00		O
ATOM	7965	HN	GLY	A	535	25.409	97.123	115.663	0.00	0.00		H
ATOM	7966	HCA	GLY	A	535	26.331	99.267	115.929	0.00	0.00		H
ATOM	7967	HCA	GLY	A	535	24.738	99.937	116.264	0.00	0.00		H
ATOM	7968	N	SER	A	536	25.123	97.801	118.530	0.00	0.00		N
ATOM	7969	CA	SER	A	536	25.307	97.609	119.948	0.00	0.00		C
ATOM	7970	C	SER	A	536	25.918	96.309	120.314	0.00	0.00		C
ATOM	7971	O	SER	A	536	25.414	95.248	119.878	0.00	0.00		O
ATOM	7972	CB	SER	A	536	23.957	97.763	120.684	0.00	0.00		C
ATOM	7973	OG	SER	A	536	24.216	98.007	122.069	0.00	0.00		O
ATOM	7974	HN	SER	A	536	24.592	97.147	118.047	0.00	0.00		H
ATOM	7975	HCA	SER	A	536	25.952	98.394	120.347	0.00	0.00		H
ATOM	7976	HCN	SER	A	536	23.417	98.620	120.275	0.00	0.00		H
ATOM	7977	HCN	SER	A	536	23.325	96.878	120.558	0.00	0.00		H
ATOM	7978	HOG	SER	A	536	23.757	97.314	122.563	0.00	0.00		H
ATOM	7979	N	ASP	A	537	26.958	96.273	121.180	0.00	0.00		N
ATOM	7980	CA	ASP	A	537	27.488	95.090	121.804	0.00	0.00		C
ATOM	7981	C	ASP	A	537	26.490	94.278	122.565	0.00	0.00		C
ATOM	7982	O	ASP	A	537	26.703	93.046	122.678	0.00	0.00		O
ATOM	7983	CB	ASP	A	537	28.653	95.458	122.774	0.00	0.00		C
ATOM	7984	CG	ASP	A	537	29.774	96.202	122.187	0.00	0.00		C
ATOM	7985	OD1	ASP	A	537	30.116	96.033	121.001	0.00	0.00		O
ATOM	7986	OD2	ASP	A	537	30.449	96.995	122.874	0.00	0.00		O
ATOM	7987	HN	ASP	A	537	27.387	97.113	121.354	0.00	0.00		H
ATOM	7988	HCA	ASP	A	537	27.887	94.463	121.001	0.00	0.00		H
ATOM	7989	HCN	ASP	A	537	28.259	96.031	123.613	0.00	0.00		H
ATOM	7990	HCN	ASP	A	537	29.078	94.543	123.185	0.00	0.00		H
ATOM	7991	N	PHE	A	538	25.435	94.870	123.178	0.00	0.00		N
ATOM	7992	CA	PHE	A	538	24.489	94.250	124.074	0.00	0.00		C
ATOM	7993	C	PHE	A	538	23.112	94.760	123.820	0.00	0.00		C
ATOM	7994	O	PHE	A	538	22.945	95.979	123.587	0.00	0.00		O
ATOM	7995	CB	PHE	A	538	24.895	94.542	125.552	0.00	0.00		C
ATOM	7996	CG	PHE	A	538	26.157	93.879	125.982	0.00	0.00		C
ATOM	7997	CD1	PHE	A	538	26.209	92.474	126.144	0.00	0.00		C
ATOM	7998	CD2	PHE	A	538	27.320	94.635	126.262	0.00	0.00		C

ATOM	7999	CE1	PHE	A	538	27.390	91.842	126.576	0.00	0.00	C
ATOM	8000	CE2	PHE	A	538	28.503	94.004	126.691	0.00	0.00	C
ATOM	8001	CZ	PHE	A	538	28.539	92.607	126.846	0.00	0.00	C
ATOM	8002	HN	PHE	A	538	25.311	95.813	123.003	0.00	0.00	H
ATOM	8003	HCA	PHE	A	538	24.471	93.168	123.928	0.00	0.00	H
ATOM	8004	HCN	PHE	A	538	24.976	95.624	125.683	0.00	0.00	H
ATOM	8005	HCN	PHE	A	538	24.101	94.207	126.227	0.00	0.00	H
ATOM	8006	HCD1	PHE	A	538	25.383	91.901	125.956	0.00	0.00	H
ATOM	8007	HCD2	PHE	A	538	27.316	95.651	126.157	0.00	0.00	H
ATOM	8008	HCE1	PHE	A	538	27.413	90.826	126.693	0.00	0.00	H
ATOM	8009	HCE2	PHE	A	538	29.336	94.562	126.892	0.00	0.00	H
ATOM	8010	HCZ	PHE	A	538	29.399	92.148	127.157	0.00	0.00	H
ATOM	8011	N	SER	A	539	22.033	93.949	123.892	0.00	0.00	N
ATOM	8012	CA	SER	A	539	20.654	94.341	123.723	0.00	0.00	C
ATOM	8013	C	SER	A	539	19.841	94.100	124.939	0.00	0.00	C
ATOM	8014	O	SER	A	539	20.113	93.146	125.706	0.00	0.00	O
ATOM	8015	CB	SER	A	539	20.045	93.560	122.537	0.00	0.00	C
ATOM	8016	OG	SER	A	539	20.173	92.153	122.737	0.00	0.00	O
ATOM	8017	HN	SER	A	539	22.197	93.012	124.081	0.00	0.00	H
ATOM	8018	HCA	SER	A	539	20.576	95.406	123.485	0.00	0.00	H
ATOM	8019	HCN	SER	A	539	18.993	93.825	122.403	0.00	0.00	H
ATOM	8020	HCN	SER	A	539	20.581	93.826	121.622	0.00	0.00	H
ATOM	8021	HOG	SER	A	539	19.285	91.771	122.830	0.00	0.00	H
ATOM	8022	N	VAL	A	540	18.736	94.849	125.164	0.00	0.00	N
ATOM	8023	CA	VAL	A	540	17.805	94.621	126.236	0.00	0.00	C
ATOM	8024	C	VAL	A	540	17.164	93.297	126.007	0.00	0.00	C
ATOM	8025	O	VAL	A	540	16.561	93.077	124.926	0.00	0.00	O
ATOM	8026	CB	VAL	A	540	16.771	95.790	126.361	0.00	0.00	C
ATOM	8027	CG1	VAL	A	540	15.693	95.508	127.445	0.00	0.00	C
ATOM	8028	CG2	VAL	A	540	17.467	97.150	126.643	0.00	0.00	C
ATOM	8029	HN	VAL	A	540	18.528	95.525	124.519	0.00	0.00	H
ATOM	8030	HCA	VAL	A	540	18.368	94.589	127.175	0.00	0.00	H
ATOM	8031	HCN	VAL	A	540	16.246	95.895	125.413	0.00	0.00	H
ATOM	8032	HCG1	VAL	A	540	15.081	94.647	127.169	0.00	0.00	H
ATOM	8033	HCG1	VAL	A	540	16.169	95.296	128.405	0.00	0.00	H
ATOM	8034	HCG1	VAL	A	540	15.025	96.363	127.559	0.00	0.00	H
ATOM	8035	HCG2	VAL	A	540	18.194	97.388	125.865	0.00	0.00	H
ATOM	8036	HCG2	VAL	A	540	16.731	97.956	126.665	0.00	0.00	H
ATOM	8037	HCG2	VAL	A	540	17.988	97.122	127.602	0.00	0.00	H
ATOM	8038	N	GLY	A	541	17.323	92.318	126.921	0.00	0.00	N
ATOM	8039	CA	GLY	A	541	16.863	90.973	126.807	0.00	0.00	C
ATOM	8040	C	GLY	A	541	17.977	90.029	126.707	0.00	0.00	C
ATOM	8041	O	GLY	A	541	17.744	88.839	127.025	0.00	0.00	O
ATOM	8042	HN	GLY	A	541	17.857	92.508	127.697	0.00	0.00	H
ATOM	8043	HCA	GLY	A	541	16.270	90.748	127.697	0.00	0.00	H
ATOM	8044	HCA	GLY	A	541	16.250	90.799	125.924	0.00	0.00	H
ATOM	8045	N	ALA	A	542	19.198	90.419	126.259	0.00	0.00	N
ATOM	8046	CA	ALA	A	542	20.308	89.545	126.071	0.00	0.00	C
ATOM	8047	C	ALA	A	542	20.673	88.854	127.326	0.00	0.00	C
ATOM	8048	O	ALA	A	542	20.932	87.632	127.258	0.00	0.00	O
ATOM	8049	CB	ALA	A	542	21.517	90.349	125.536	0.00	0.00	C
ATOM	8050	HN	ALA	A	542	19.362	91.347	126.072	0.00	0.00	H
ATOM	8051	HCA	ALA	A	542	20.036	88.805	125.309	0.00	0.00	H
ATOM	8052	HCN	ALA	A	542	21.803	91.136	126.239	0.00	0.00	H
ATOM	8053	HCN	ALA	A	542	22.374	89.696	125.383	0.00	0.00	H
ATOM	8054	HCN	ALA	A	542	21.267	90.804	124.580	0.00	0.00	H
ATOM	8055	N	ASP	A	543	20.707	89.513	128.510	0.00	0.00	N
ATOM	8056	CA	ASP	A	543	21.170	88.933	129.731	0.00	0.00	C
ATOM	8057	C	ASP	A	543	20.140	88.026	130.312	0.00	0.00	C
ATOM	8058	O	ASP	A	543	20.506	86.875	130.631	0.00	0.00	O
ATOM	8059	CB	ASP	A	543	21.669	90.050	130.680	0.00	0.00	C
ATOM	8060	CG	ASP	A	543	22.477	89.518	131.791	0.00	0.00	C
ATOM	8061	OD1	ASP	A	543	23.540	88.895	131.577	0.00	0.00	O
ATOM	8062	OD2	ASP	A	543	22.098	89.657	132.970	0.00	0.00	O
ATOM	8063	HN	ASP	A	543	20.348	90.416	128.550	0.00	0.00	H
ATOM	8064	HCA	ASP	A	543	22.056	88.334	129.484	0.00	0.00	H
ATOM	8065	HCN	ASP	A	543	22.309	90.738	130.125	0.00	0.00	H
ATOM	8066	HCN	ASP	A	543	20.818	90.617	131.060	0.00	0.00	H
ATOM	8067	N	THR	A	544	18.825	88.341	130.424	0.00	0.00	N
ATOM	8068	CA	THR	A	544	17.776	87.402	130.763	0.00	0.00	C
ATOM	8069	C	THR	A	544	17.790	86.232	129.856	0.00	0.00	C
ATOM	8070	O	THR	A	544	17.872	85.093	130.379	0.00	0.00	O
ATOM	8071	CB	THR	A	544	16.361	88.058	130.837	0.00	0.00	C
ATOM	8072	CG2	THR	A	544	15.197	87.056	131.063	0.00	0.00	C
ATOM	8073	OG1	THR	A	544	16.358	88.972	131.932	0.00	0.00	O
ATOM	8074	HN	THR	A	544	18.584	89.252	130.254	0.00	0.00	H
ATOM	8075	HCA	THR	A	544	17.990	87.022	131.765	0.00	0.00	H
ATOM	8076	HCN	THR	A	544	16.171	88.621	129.917	0.00	0.00	H
ATOM	8077	HCG2	THR	A	544	15.095	86.380	130.212	0.00	0.00	H
ATOM	8078	HCG2	THR	A	544	15.372	86.465	131.964	0.00	0.00	H

ATOM	8079	HCG2	THR	A	544	14.254	87.589	131.174	0.00	0.00		H
ATOM	8080	HOG1	THR	A	544	15.525	88.861	132.423	0.00	0.00		H
ATOM	8081	N	ALA	A	545	17.771	86.365	128.507	0.00	0.00		N
ATOM	8082	CA	ALA	A	545	17.833	85.272	127.586	0.00	0.00		C
ATOM	8083	C	ALA	A	545	19.004	84.400	127.842	0.00	0.00		C
ATOM	8084	O	ALA	A	545	18.813	83.188	128.077	0.00	0.00		O
ATOM	8085	CB	ALA	A	545	17.866	85.824	126.146	0.00	0.00		C
ATOM	8086	HN	ALA	A	545	17.744	87.241	128.117	0.00	0.00		H
ATOM	8087	HCA	ALA	A	545	16.916	84.685	127.699	0.00	0.00		H
ATOM	8088	HCB	ALA	A	545	18.749	86.445	125.984	0.00	0.00		H
ATOM	8089	HCB	ALA	A	545	17.888	84.995	125.437	0.00	0.00		H
ATOM	8090	HCB	ALA	A	545	16.982	86.435	125.957	0.00	0.00		H
ATOM	8091	N	LEU	A	546	20.251	84.917	127.885	0.00	0.00		N
ATOM	8092	CA	LEU	A	546	21.449	84.200	128.181	0.00	0.00		C
ATOM	8093	C	LEU	A	546	21.419	83.510	129.499	0.00	0.00		C
ATOM	8094	O	LEU	A	546	21.701	82.297	129.502	0.00	0.00		O
ATOM	8095	CB	LEU	A	546	22.629	85.199	128.046	0.00	0.00		C
ATOM	8096	CG	LEU	A	546	24.046	84.661	128.386	0.00	0.00		C
ATOM	8097	CD1	LEU	A	546	24.412	83.358	127.630	0.00	0.00		C
ATOM	8098	CD2	LEU	A	546	25.093	85.775	128.131	0.00	0.00		C
ATOM	8099	HN	LEU	A	546	20.368	85.847	127.690	0.00	0.00		H
ATOM	8100	HCA	LEU	A	546	21.564	83.451	127.390	0.00	0.00		H
ATOM	8101	HCB	LEU	A	546	22.639	85.576	127.018	0.00	0.00		H
ATOM	8102	HCB	LEU	A	546	22.434	86.045	128.709	0.00	0.00		H
ATOM	8103	HCD1	LEU	A	546	24.296	83.495	126.555	0.00	0.00		H
ATOM	8104	HCD1	LEU	A	546	25.439	83.071	127.854	0.00	0.00		H
ATOM	8105	HCD1	LEU	A	546	23.776	82.531	127.939	0.00	0.00		H
ATOM	8106	HCD2	LEU	A	546	24.841	86.678	128.693	0.00	0.00		H
ATOM	8107	HCD2	LEU	A	546	26.077	85.448	128.458	0.00	0.00		H
ATOM	8108	HCD2	LEU	A	546	25.140	86.026	127.069	0.00	0.00		H
ATOM	8109	HCG	LEU	A	546	24.062	84.438	129.452	0.00	0.00		H
ATOM	8110	N	ASN	A	547	21.106	84.100	130.676	0.00	0.00		N
ATOM	8111	CA	ASN	A	547	21.037	83.423	131.948	0.00	0.00		C
ATOM	8112	C	ASN	A	547	19.990	82.361	131.972	0.00	0.00		C
ATOM	8113	O	ASN	A	547	20.270	81.247	132.477	0.00	0.00		O
ATOM	8114	CB	ASN	A	547	20.850	84.427	133.121	0.00	0.00		C
ATOM	8115	CG	ASN	A	547	22.079	85.194	133.402	0.00	0.00		C
ATOM	8116	ND2	ASN	A	547	22.340	86.318	132.735	0.00	0.00		N
ATOM	8117	OD1	ASN	A	547	22.919	84.780	134.229	0.00	0.00		O
ATOM	8118	HN	ASN	A	547	20.902	85.030	130.652	0.00	0.00		H
ATOM	8119	HND2	ASN	A	547	21.737	86.581	132.049	0.00	0.00		H
ATOM	8120	HND2	ASN	A	547	23.116	86.867	132.923	0.00	0.00		H
ATOM	8121	HCA	ASN	A	547	22.000	82.929	132.109	0.00	0.00		H
ATOM	8122	HCB	ASN	A	547	20.026	85.113	132.907	0.00	0.00		H
ATOM	8123	HCB	ASN	A	547	20.587	83.885	134.034	0.00	0.00		H
ATOM	8124	N	THR	A	548	18.758	82.554	131.439	0.00	0.00		N
ATOM	8125	CA	THR	A	548	17.746	81.532	131.361	0.00	0.00		C
ATOM	8126	C	THR	A	548	18.177	80.403	130.492	0.00	0.00		C
ATOM	8127	O	THR	A	548	18.044	79.235	130.921	0.00	0.00		O
ATOM	8128	CB	THR	A	548	16.374	82.105	130.898	0.00	0.00		C
ATOM	8129	CG2	THR	A	548	15.205	81.129	131.140	0.00	0.00		C
ATOM	8130	OG1	THR	A	548	16.048	83.289	131.623	0.00	0.00		O
ATOM	8131	HN	THR	A	548	18.542	83.413	131.078	0.00	0.00		H
ATOM	8132	HCA	THR	A	548	17.599	81.155	132.380	0.00	0.00		H
ATOM	8133	HCB	THR	A	548	16.414	82.359	129.832	0.00	0.00		H
ATOM	8134	HCG2	THR	A	548	15.360	80.200	130.591	0.00	0.00		H
ATOM	8135	HCG2	THR	A	548	15.108	80.899	132.204	0.00	0.00		H
ATOM	8136	HCG2	THR	A	548	14.283	81.593	130.800	0.00	0.00		H
ATOM	8137	HOG1	THR	A	548	16.651	83.942	131.246	0.00	0.00		H
ATOM	8138	N	ILE	A	549	18.725	80.605	129.269	0.00	0.00		N
ATOM	8139	CA	ILE	A	549	19.272	79.587	128.410	0.00	0.00		C
ATOM	8140	C	ILE	A	549	20.411	78.885	129.064	0.00	0.00		C
ATOM	8141	O	ILE	A	549	20.444	77.641	128.998	0.00	0.00		O
ATOM	8142	CB	ILE	A	549	19.561	80.145	126.972	0.00	0.00		C
ATOM	8143	CG1	ILE	A	549	18.207	80.505	126.264	0.00	0.00		C
ATOM	8144	CG2	ILE	A	549	20.378	79.152	126.091	0.00	0.00		C
ATOM	8145	CD1	ILE	A	549	18.349	81.378	125.001	0.00	0.00		C
ATOM	8146	HN	ILE	A	549	18.765	81.498	128.938	0.00	0.00		H
ATOM	8147	HCA	ILE	A	549	18.488	78.850	128.271	0.00	0.00		H
ATOM	8148	HCB	ILE	A	549	20.162	81.054	127.082	0.00	0.00		H
ATOM	8149	HCD1	ILE	A	549	18.898	82.286	125.244	0.00	0.00		H
ATOM	8150	HCD1	ILE	A	549	18.868	80.842	124.206	0.00	0.00		H
ATOM	8151	HCD1	ILE	A	549	17.364	81.659	124.631	0.00	0.00		H
ATOM	8152	HCG1	ILE	A	549	17.673	79.588	125.999	0.00	0.00		H
ATOM	8153	HCG1	ILE	A	549	17.566	81.057	126.956	0.00	0.00		H
ATOM	8154	HCG2	ILE	A	549	21.331	78.915	126.561	0.00	0.00		H
ATOM	8155	HCG2	ILE	A	549	19.828	78.220	125.950	0.00	0.00		H
ATOM	8156	HCG2	ILE	A	549	20.604	79.580	125.115	0.00	0.00		H
ATOM	8157	N	CYS	A	550	21.380	79.526	129.753	0.00	0.00		N
ATOM	8158	CA	CYS	A	550	22.399	78.927	130.567	0.00	0.00		C

ATOM	8159	C	CYS	A	550	21.820	78.024	131.597	0.00	0.00		C
ATOM	8160	O	CYS	A	550	22.233	76.847	131.629	0.00	0.00		O
ATOM	8161	CB	CYS	A	550	23.290	80.031	131.187	0.00	0.00		C
ATOM	8162	SG	CYS	A	550	24.658	79.369	132.155	0.00	0.00		S
ATOM	8163	HN	CYS	A	550	21.404	80.470	129.687	0.00	0.00		H
ATOM	8164	HCA	CYS	A	550	23.043	78.348	129.900	0.00	0.00		H
ATOM	8165	HCB	CYS	A	550	23.713	80.651	130.394	0.00	0.00		H
ATOM	8166	HCB	CYS	A	550	22.702	80.666	131.846	0.00	0.00		H
ATOM	8167	HSG	CYS	A	550	25.076	78.553	131.150	0.00	0.00		H
ATOM	8168	N	THR	A	551	20.822	78.398	132.435	0.00	0.00		N
ATOM	8169	CA	THR	A	551	20.110	77.488	133.308	0.00	0.00		C
ATOM	8170	C	THR	A	551	19.573	76.323	132.543	0.00	0.00		C
ATOM	8171	O	THR	A	551	19.888	75.156	132.887	0.00	0.00		O
ATOM	8172	CB	THR	A	551	18.989	78.215	134.111	0.00	0.00		C
ATOM	8173	CG2	THR	A	551	18.263	77.309	135.136	0.00	0.00		C
ATOM	8174	OG1	THR	A	551	19.555	79.299	134.845	0.00	0.00		O
ATOM	8175	HN	THR	A	551	20.590	79.328	132.447	0.00	0.00		H
ATOM	8176	HCA	THR	A	551	20.834	77.124	134.043	0.00	0.00		H
ATOM	8177	HCB	THR	A	551	18.249	78.625	133.420	0.00	0.00		H
ATOM	8178	HCG2	THR	A	551	17.749	76.490	134.630	0.00	0.00		H
ATOM	8179	HCG2	THR	A	551	18.978	76.891	135.847	0.00	0.00		H
ATOM	8180	HCG2	THR	A	551	17.519	77.886	135.688	0.00	0.00		H
ATOM	8181	HOG1	THR	A	551	18.796	79.734	135.289	0.00	0.00		H
ATOM	8182	N	THR	A	552	18.813	76.525	131.438	0.00	0.00		N
ATOM	8183	CA	THR	A	552	18.346	75.500	130.538	0.00	0.00		C
ATOM	8184	C	THR	A	552	19.418	74.915	129.663	0.00	0.00		C
ATOM	8185	O	THR	A	552	19.086	74.130	128.741	0.00	0.00		O
ATOM	8186	CB	THR	A	552	17.032	75.896	129.791	0.00	0.00		C
ATOM	8187	CG2	THR	A	552	15.905	76.368	130.744	0.00	0.00		C
ATOM	8188	OG1	THR	A	552	17.271	76.914	128.837	0.00	0.00		O
ATOM	8189	HN	THR	A	552	18.590	77.430	131.227	0.00	0.00		H
ATOM	8190	HCA	THR	A	552	18.002	74.689	131.165	0.00	0.00		H
ATOM	8191	HCB	THR	A	552	16.663	75.020	129.248	0.00	0.00		H
ATOM	8192	HCG2	THR	A	552	16.207	77.268	131.281	0.00	0.00		H
ATOM	8193	HCG2	THR	A	552	15.000	76.594	130.184	0.00	0.00		H
ATOM	8194	HCG2	THR	A	552	15.675	75.587	131.469	0.00	0.00		H
ATOM	8195	HOG1	THR	A	552	16.435	77.099	128.388	0.00	0.00		H
ATOM	8196	N	CYS	A	553	20.744	75.100	129.917	0.00	0.00		N
ATOM	8197	CA	CYS	A	553	21.879	74.368	129.413	0.00	0.00		C
ATOM	8198	C	CYS	A	553	22.683	73.822	130.560	0.00	0.00		C
ATOM	8199	O	CYS	A	553	23.668	73.094	130.297	0.00	0.00		O
ATOM	8200	CB	CYS	A	553	22.753	75.261	128.489	0.00	0.00		C
ATOM	8201	SG	CYS	A	553	21.913	75.730	126.959	0.00	0.00		S
ATOM	8202	HN	CYS	A	553	21.008	75.776	130.540	0.00	0.00		H
ATOM	8203	HCA	CYS	A	553	21.555	73.515	128.814	0.00	0.00		H
ATOM	8204	HCB	CYS	A	553	23.054	76.166	129.014	0.00	0.00		H
ATOM	8205	HCB	CYS	A	553	23.659	74.726	128.199	0.00	0.00		H
ATOM	8206	HSG	CYS	A	553	21.642	74.438	126.637	0.00	0.00		H
ATOM	8207	N	ASP	A	554	22.327	73.998	131.863	0.00	0.00		N
ATOM	8208	CA	ASP	A	554	23.043	73.569	133.044	0.00	0.00		C
ATOM	8209	C	ASP	A	554	22.312	72.450	133.675	0.00	0.00		C
ATOM	8210	O	ASP	A	554	22.944	71.433	134.056	0.00	0.00		O
ATOM	8211	CB	ASP	A	554	23.101	74.667	134.154	0.00	0.00		C
ATOM	8212	CG	ASP	A	554	23.981	75.806	133.936	0.00	0.00		C
ATOM	8213	OD1	ASP	A	554	25.049	75.719	133.301	0.00	0.00		O
ATOM	8214	OD2	ASP	A	554	23.770	76.861	134.566	0.00	0.00		O
ATOM	8215	HN	ASP	A	554	21.511	74.457	132.060	0.00	0.00		H
ATOM	8216	HCA	ASP	A	554	24.063	73.249	132.804	0.00	0.00		H
ATOM	8217	HCB	ASP	A	554	22.098	75.053	134.341	0.00	0.00		H
ATOM	8218	HCB	ASP	A	554	23.456	74.228	135.091	0.00	0.00		H
ATOM	8219	N	ARG	A	555	20.982	72.600	133.904	0.00	0.00		N
ATOM	8220	CA	ARG	A	555	20.127	71.697	134.623	0.00	0.00		C
ATOM	8221	C	ARG	A	555	19.851	70.439	133.848	0.00	0.00		C
ATOM	8222	O	ARG	A	555	18.753	69.852	133.935	0.00	0.00		O
ATOM	8223	CB	ARG	A	555	18.882	72.542	135.070	0.00	0.00		C
ATOM	8224	CG	ARG	A	555	18.016	71.934	136.200	0.00	0.00		C
ATOM	8225	CD	ARG	A	555	16.546	72.412	136.221	0.00	0.00		C
ATOM	8226	NE	ARG	A	555	15.859	71.897	135.076	0.00	0.00		N
ATOM	8227	CZ	ARG	A	555	15.218	72.602	134.143	0.00	0.00		C
ATOM	8228	NH1	ARG	A	555	15.142	73.923	134.076	0.00	0.00		N
ATOM	8229	NH2	ARG	A	555	14.601	71.893	133.216	0.00	0.00		N
ATOM	8230	HN	ARG	A	555	20.588	73.412	133.564	0.00	0.00		H
ATOM	8231	HNE	ARG	A	555	15.871	70.949	134.939	0.00	0.00		H
ATOM	8232	HNH1	ARG	A	555	15.590	74.464	134.736	0.00	0.00		H
ATOM	8233	HNH1	ARG	A	555	14.641	74.340	133.365	0.00	0.00		H
ATOM	8234	HNH2	ARG	A	555	14.665	70.957	133.227	0.00	0.00		H
ATOM	8235	HNH2	ARG	A	555	14.132	72.304	132.496	0.00	0.00		H
ATOM	8236	HCA	ARG	A	555	20.657	71.403	135.531	0.00	0.00		H
ATOM	8237	HCB	ARG	A	555	19.216	73.528	135.412	0.00	0.00		H
ATOM	8238	HCB	ARG	A	555	18.235	72.721	134.223	0.00	0.00		H



ATOM	8239	HCD	ARG	A	555	16.056	72.014	137.114	0.00	0.00		H
ATOM	8240	HCD	ARG	A	555	16.520	73.503	136.290	0.00	0.00		H
ATOM	8241	HCG	ARG	A	555	18.001	70.853	136.115	0.00	0.00		H
ATOM	8242	HCG	ARG	A	555	18.484	72.199	137.146	0.00	0.00		H
ATOM	8243	N	ILE	A	556	20.840	69.882	133.107	0.00	0.00		N
ATOM	8244	CA	ILE	A	556	20.892	68.637	132.390	0.00	0.00		C
ATOM	8245	C	ILE	A	556	21.937	67.759	132.965	0.00	0.00		C
ATOM	8246	O	ILE	A	556	21.944	66.537	132.685	0.00	0.00		O
ATOM	8247	CB	ILE	A	556	21.109	68.786	130.833	0.00	0.00		C
ATOM	8248	CG1	ILE	A	556	20.235	67.780	130.013	0.00	0.00		C
ATOM	8249	CG2	ILE	A	556	22.592	68.788	130.348	0.00	0.00		C
ATOM	8250	CD1	ILE	A	556	19.873	68.235	128.579	0.00	0.00		C
ATOM	8251	HN	ILE	A	556	21.642	70.373	133.191	0.00	0.00		H
ATOM	8252	HCA	ILE	A	556	19.935	68.169	132.581	0.00	0.00		H
ATOM	8253	HCB	ILE	A	556	20.767	69.766	130.571	0.00	0.00		H
ATOM	8254	HCD1	ILE	A	556	19.138	69.039	128.586	0.00	0.00		H
ATOM	8255	HCD1	ILE	A	556	20.749	68.588	128.049	0.00	0.00		H
ATOM	8256	HCD1	ILE	A	556	19.441	67.400	128.030	0.00	0.00		H
ATOM	8257	HCG1	ILE	A	556	20.753	66.823	129.984	0.00	0.00		H
ATOM	8258	HCG1	ILE	A	556	19.278	67.604	130.505	0.00	0.00		H
ATOM	8259	HCG2	ILE	A	556	23.173	69.515	130.918	0.00	0.00		H
ATOM	8260	HCG2	ILE	A	556	23.044	67.802	130.462	0.00	0.00		H
ATOM	8261	HCG2	ILE	A	556	22.654	69.062	129.296	0.00	0.00		H
ATOM	8262	N	LYS	A	557	22.953	68.272	133.700	0.00	0.00		N
ATOM	8263	CA	LYS	A	557	24.077	67.494	134.134	0.00	0.00		C
ATOM	8264	C	LYS	A	557	23.736	66.483	135.192	0.00	0.00		C
ATOM	8265	O	LYS	A	557	24.661	65.829	135.727	0.00	0.00		O
ATOM	8266	CB	LYS	A	557	25.269	68.439	134.465	0.00	0.00		C
ATOM	8267	CG	LYS	A	557	25.620	69.540	133.410	0.00	0.00		C
ATOM	8268	CD	LYS	A	557	26.138	69.096	132.011	0.00	0.00		C
ATOM	8269	CE	LYS	A	557	27.654	68.810	131.906	0.00	0.00		C
ATOM	8270	NZ	LYS	A	557	28.467	69.981	132.260	0.00	0.00		N
ATOM	8271	HN	LYS	A	557	22.942	69.221	133.890	0.00	0.00		H
ATOM	8272	HNZ	LYS	A	557	28.047	70.842	131.898	0.00	0.00		H
ATOM	8273	HNZ	LYS	A	557	28.540	70.023	133.270	0.00	0.00		H
ATOM	8274	HNZ	LYS	A	557	29.403	69.878	131.864	0.00	0.00		H
ATOM	8275	HCA	LYS	A	557	24.414	66.910	133.278	0.00	0.00		H
ATOM	8276	HCB	LYS	A	557	25.021	68.943	135.403	0.00	0.00		H
ATOM	8277	HCB	LYS	A	557	26.162	67.832	134.636	0.00	0.00		H
ATOM	8278	HCD	LYS	A	557	25.582	68.221	131.674	0.00	0.00		H
ATOM	8279	HCD	LYS	A	557	25.914	69.894	131.295	0.00	0.00		H
ATOM	8280	HCE	LYS	A	557	27.928	67.978	132.557	0.00	0.00		H
ATOM	8281	HCE	LYS	A	557	27.887	68.531	130.875	0.00	0.00		H
ATOM	8282	HCG	LYS	A	557	24.727	70.122	133.221	0.00	0.00		H
ATOM	8283	HCG	LYS	A	557	26.331	70.236	133.860	0.00	0.00		H
ATOM	8284	N	GLN	A	558	22.451	66.187	135.526	0.00	0.00		N
ATOM	8285	CA	GLN	A	558	21.983	65.053	136.288	0.00	0.00		C
ATOM	8286	C	GLN	A	558	20.998	64.323	135.457	0.00	0.00		C
ATOM	8287	O	GLN	A	558	21.334	63.258	134.965	0.00	0.00		O
ATOM	8288	CB	GLN	A	558	21.472	65.432	137.722	0.00	0.00		C
ATOM	8289	CG	GLN	A	558	22.052	66.720	138.403	0.00	0.00		C
ATOM	8290	CD	GLN	A	558	23.312	66.580	139.160	0.00	0.00		C
ATOM	8291	NE2	GLN	A	558	24.445	66.189	138.571	0.00	0.00		N
ATOM	8292	OE1	GLN	A	558	23.387	66.898	140.370	0.00	0.00		O
ATOM	8293	HN	GLN	A	558	21.775	66.776	135.163	0.00	0.00		H
ATOM	8294	HNE2	GLN	A	558	24.471	66.029	137.632	0.00	0.00		H
ATOM	8295	HNE2	GLN	A	558	25.246	66.096	139.103	0.00	0.00		H
ATOM	8296	HCA	GLN	A	558	22.828	64.375	136.454	0.00	0.00		H
ATOM	8297	HCB	GLN	A	558	20.389	65.546	137.693	0.00	0.00		H
ATOM	8298	HCB	GLN	A	558	21.652	64.580	138.382	0.00	0.00		H
ATOM	8299	HCG	GLN	A	558	22.213	67.500	137.664	0.00	0.00		H
ATOM	8300	HCG	GLN	A	558	21.296	67.103	139.093	0.00	0.00		H
ATOM	8301	N	SER	A	559	19.793	64.804	135.178	0.00	0.00		N
ATOM	8302	CA	SER	A	559	18.793	64.359	134.216	0.00	0.00		C
ATOM	8303	C	SER	A	559	18.179	63.010	134.326	0.00	0.00		C
ATOM	8304	O	SER	A	559	18.687	62.119	135.040	0.00	0.00		O
ATOM	8305	CB	SER	A	559	19.269	64.549	132.748	0.00	0.00		C
ATOM	8306	OG	SER	A	559	19.339	65.914	132.411	0.00	0.00		O
ATOM	8307	HN	SER	A	559	19.563	65.609	135.648	0.00	0.00		H
ATOM	8308	HCA	SER	A	559	17.961	65.048	134.373	0.00	0.00		H
ATOM	8309	HCB	SER	A	559	20.253	64.101	132.606	0.00	0.00		H
ATOM	8310	HCB	SER	A	559	18.594	64.104	132.013	0.00	0.00		H
ATOM	8311	HOG	SER	A	559	18.509	66.367	132.618	0.00	0.00		H
ATOM	8312	N	ALA	A	560	17.097	62.760	133.536	0.00	0.00		N
ATOM	8313	CA	ALA	A	560	16.455	61.502	133.271	0.00	0.00		C
ATOM	8314	C	ALA	A	560	17.268	60.603	132.394	0.00	0.00		C
ATOM	8315	O	ALA	A	560	16.799	60.084	131.348	0.00	0.00		O
ATOM	8316	CB	ALA	A	560	15.082	61.858	132.639	0.00	0.00		C
ATOM	8317	HN	ALA	A	560	16.755	63.521	133.047	0.00	0.00		H
ATOM	8318	HCA	ALA	A	560	16.295	60.984	134.219	0.00	0.00		H





ATOM	8479	CA	ILE	A	570	20.264	71.149	122.694	0.00	0.00		C
ATOM	8480	C	ILE	A	570	20.081	72.126	121.577	0.00	0.00		C
ATOM	8481	O	ILE	A	570	21.043	72.851	121.225	0.00	0.00		O
ATOM	8482	CB	ILE	A	570	20.632	71.825	124.060	0.00	0.00		C
ATOM	8483	CG1	ILE	A	570	20.874	70.783	125.208	0.00	0.00		C
ATOM	8484	CG2	ILE	A	570	19.566	72.875	124.467	0.00	0.00		C
ATOM	8485	CD1	ILE	A	570	21.132	71.390	126.608	0.00	0.00		C
ATOM	8486	HN	ILE	A	570	22.188	70.394	122.436	0.00	0.00		H
ATOM	8487	HCA	ILE	A	570	19.297	70.671	122.863	0.00	0.00		H
ATOM	8488	HCB	ILE	A	570	21.567	72.358	123.906	0.00	0.00		H
ATOM	8489	HCD1	ILE	A	570	21.808	72.241	126.531	0.00	0.00		H
ATOM	8490	HCD1	ILE	A	570	20.196	71.721	127.063	0.00	0.00		H
ATOM	8491	HCD1	ILE	A	570	21.585	70.649	127.265	0.00	0.00		H
ATOM	8492	HCG1	ILE	A	570	20.021	70.104	125.280	0.00	0.00		H
ATOM	8493	HCG1	ILE	A	570	21.749	70.178	124.953	0.00	0.00		H
ATOM	8494	HCG2	ILE	A	570	19.433	73.618	123.680	0.00	0.00		H
ATOM	8495	HCG2	ILE	A	570	18.613	72.381	124.663	0.00	0.00		H
ATOM	8496	HCG2	ILE	A	570	19.873	73.417	125.360	0.00	0.00		H
ATOM	8497	N	GLU	A	571	18.871	72.284	120.978	0.00	0.00		N
ATOM	8498	CA	GLU	A	571	18.553	73.295	119.994	0.00	0.00		C
ATOM	8499	C	GLU	A	571	18.103	74.569	120.631	0.00	0.00		C
ATOM	8500	O	GLU	A	571	17.008	74.620	121.249	0.00	0.00		O
ATOM	8501	CB	GLU	A	571	17.546	72.762	118.941	0.00	0.00		C
ATOM	8502	CG	GLU	A	571	17.235	73.758	117.782	0.00	0.00		C
ATOM	8503	CD	GLU	A	571	16.292	73.260	116.763	0.00	0.00		C
ATOM	8504	OE1	GLU	A	571	15.756	72.133	116.832	0.00	0.00		O
ATOM	8505	OE2	GLU	A	571	16.069	73.934	115.737	0.00	0.00		O
ATOM	8506	HN	GLU	A	571	18.186	71.676	121.261	0.00	0.00		H
ATOM	8507	HCA	GLU	A	571	19.461	73.493	119.423	0.00	0.00		H
ATOM	8508	HCB	GLU	A	571	17.963	71.851	118.511	0.00	0.00		H
ATOM	8509	HCB	GLU	A	571	16.613	72.497	119.427	0.00	0.00		H
ATOM	8510	HCG	GLU	A	571	16.810	74.678	118.187	0.00	0.00		H
ATOM	8511	HCG	GLU	A	571	18.171	74.009	117.278	0.00	0.00		H
ATOM	8512	N	THR	A	572	18.866	75.678	120.476	0.00	0.00		N
ATOM	8513	CA	THR	A	572	18.642	76.982	121.049	0.00	0.00		C
ATOM	8514	C	THR	A	572	18.085	77.908	120.036	0.00	0.00		C
ATOM	8515	O	THR	A	572	18.425	77.799	118.831	0.00	0.00		O
ATOM	8516	CB	THR	A	572	19.928	77.635	121.668	0.00	0.00		C
ATOM	8517	CG2	THR	A	572	20.865	76.637	122.386	0.00	0.00		C
ATOM	8518	OG1	THR	A	572	20.727	78.346	120.712	0.00	0.00		O
ATOM	8519	HN	THR	A	572	19.616	75.575	119.891	0.00	0.00		H
ATOM	8520	HCA	THR	A	572	17.911	76.892	121.857	0.00	0.00		H
ATOM	8521	HCB	THR	A	572	19.611	78.373	122.415	0.00	0.00		H
ATOM	8522	HCG2	THR	A	572	21.303	75.941	121.669	0.00	0.00		H
ATOM	8523	HCG2	THR	A	572	21.676	77.177	122.880	0.00	0.00		H
ATOM	8524	HCG2	THR	A	572	20.318	76.071	123.140	0.00	0.00		H
ATOM	8525	HOG1	THR	A	572	20.220	79.143	120.470	0.00	0.00		H
ATOM	8526	N	MET	A	573	17.323	78.954	120.434	0.00	0.00		N
ATOM	8527	CA	MET	A	573	17.032	80.081	119.597	0.00	0.00		C
ATOM	8528	C	MET	A	573	18.238	80.907	119.304	0.00	0.00		C
ATOM	8529	O	MET	A	573	19.287	80.800	119.988	0.00	0.00		O
ATOM	8530	CB	MET	A	573	15.883	80.956	120.176	0.00	0.00		C
ATOM	8531	CG	MET	A	573	16.172	81.628	121.547	0.00	0.00		C
ATOM	8532	SD	MET	A	573	14.695	82.177	122.445	0.00	0.00		S
ATOM	8533	CE	MET	A	573	13.965	83.275	121.203	0.00	0.00		C
ATOM	8534	HN	MET	A	573	17.012	78.974	121.351	0.00	0.00		H
ATOM	8535	HCA	MET	A	573	16.660	79.676	118.654	0.00	0.00		H
ATOM	8536	HCB	MET	A	573	15.646	81.740	119.452	0.00	0.00		H
ATOM	8537	HCB	MET	A	573	14.997	80.337	120.249	0.00	0.00		H
ATOM	8538	HCE	MET	A	573	14.714	83.947	120.786	0.00	0.00		H
ATOM	8539	HCE	MET	A	573	13.528	82.703	120.390	0.00	0.00		H
ATOM	8540	HCE	MET	A	573	13.177	83.865	121.671	0.00	0.00		H
ATOM	8541	HCG	MET	A	573	16.686	80.925	122.203	0.00	0.00		H
ATOM	8542	HCG	MET	A	573	16.827	82.488	121.400	0.00	0.00		H
ATOM	8543	N	GLY	A	574	18.151	81.763	118.267	0.00	0.00		N
ATOM	8544	CA	GLY	A	574	19.081	82.799	117.933	0.00	0.00		C
ATOM	8545	C	GLY	A	574	18.848	83.411	116.608	0.00	0.00		C
ATOM	8546	O	GLY	A	574	19.614	84.331	116.234	0.00	0.00		O
ATOM	8547	HN	GLY	A	574	17.373	81.639	117.721	0.00	0.00		H
ATOM	8548	HCA	GLY	A	574	19.020	83.583	118.690	0.00	0.00		H
ATOM	8549	HCA	GLY	A	574	20.096	82.394	117.937	0.00	0.00		H
ATOM	8550	N	GLY	A	575	17.875	82.981	115.767	0.00	0.00		N
ATOM	8551	CA	GLY	A	575	17.772	83.352	114.389	0.00	0.00		C
ATOM	8552	C	GLY	A	575	18.971	82.886	113.663	0.00	0.00		C
ATOM	8553	O	GLY	A	575	19.190	81.656	113.585	0.00	0.00		O
ATOM	8554	HN	GLY	A	575	17.240	82.339	116.084	0.00	0.00		H
ATOM	8555	HCA	GLY	A	575	16.889	82.881	113.957	0.00	0.00		H
ATOM	8556	HCA	GLY	A	575	17.650	84.435	114.305	0.00	0.00		H
ATOM	8557	N	TYR	A	576	19.854	83.792	113.197	0.00	0.00		N
ATOM	8558	CA	TYR	A	576	21.141	83.515	112.622	0.00	0.00		C

ATOM	8559	C	TYR	A	576	22.241	84.104	113.444	0.00	0.00	C
ATOM	8560	O	TYR	A	576	23.392	84.109	112.947	0.00	0.00	O
ATOM	8561	CB	TYR	A	576	21.132	84.078	111.171	0.00	0.00	C
ATOM	8562	CG	TYR	A	576	20.196	83.378	110.250	0.00	0.00	C
ATOM	8563	CD1	TYR	A	576	18.910	83.903	109.980	0.00	0.00	C
ATOM	8564	CD2	TYR	A	576	20.592	82.186	109.600	0.00	0.00	C
ATOM	8565	CE1	TYR	A	576	18.057	83.273	109.054	0.00	0.00	C
ATOM	8566	CE2	TYR	A	576	19.739	81.554	108.676	0.00	0.00	C
ATOM	8567	CZ	TYR	A	576	18.472	82.100	108.400	0.00	0.00	C
ATOM	8568	OH	TYR	A	576	17.646	81.496	107.517	0.00	0.00	O
ATOM	8569	HN	TYR	A	576	19.606	84.724	113.289	0.00	0.00	H
ATOM	8570	HCA	TYR	A	576	21.343	82.440	112.572	0.00	0.00	H
ATOM	8571	HCB	TYR	A	576	20.891	85.142	111.212	0.00	0.00	H
ATOM	8572	HCB	TYR	A	576	22.135	84.013	110.739	0.00	0.00	H
ATOM	8573	HCD1	TYR	A	576	18.588	84.750	110.452	0.00	0.00	H
ATOM	8574	HCD2	TYR	A	576	21.509	81.776	109.788	0.00	0.00	H
ATOM	8575	HCE1	TYR	A	576	17.134	83.666	108.860	0.00	0.00	H
ATOM	8576	HCE2	TYR	A	576	20.043	80.699	108.206	0.00	0.00	H
ATOM	8577	HOH	TYR	A	576	17.926	80.672	107.065	0.00	0.00	H
ATOM	8578	N	CYS	A	577	22.054	84.594	114.700	0.00	0.00	N
ATOM	8579	CA	CYS	A	577	23.063	85.199	115.528	0.00	0.00	C
ATOM	8580	C	CYS	A	577	23.422	84.227	116.591	0.00	0.00	C
ATOM	8581	O	CYS	A	577	22.645	84.037	117.558	0.00	0.00	O
ATOM	8582	CB	CYS	A	577	22.543	86.547	116.097	0.00	0.00	C
ATOM	8583	SG	CYS	A	577	23.800	87.465	117.013	0.00	0.00	S
ATOM	8584	HN	CYS	A	577	21.195	84.498	115.113	0.00	0.00	H
ATOM	8585	HCA	CYS	A	577	23.955	85.431	114.939	0.00	0.00	H
ATOM	8586	HCB	CYS	A	577	22.203	87.182	115.284	0.00	0.00	H
ATOM	8587	HCB	CYS	A	577	21.694	86.375	116.760	0.00	0.00	H
ATOM	8588	HSG	CYS	A	577	24.620	87.636	115.944	0.00	0.00	H
ATOM	8589	N	GLY	A	578	24.596	83.559	116.527	0.00	0.00	N
ATOM	8590	CA	GLY	A	578	25.051	82.534	117.421	0.00	0.00	C
ATOM	8591	C	GLY	A	578	25.556	83.013	118.723	0.00	0.00	C
ATOM	8592	O	GLY	A	578	26.429	82.349	119.337	0.00	0.00	O
ATOM	8593	HN	GLY	A	578	25.194	83.831	115.829	0.00	0.00	H
ATOM	8594	HCA	GLY	A	578	24.268	81.791	117.585	0.00	0.00	H
ATOM	8595	HCA	GLY	A	578	25.873	82.050	116.906	0.00	0.00	H
ATOM	8596	N	TYR	A	579	25.000	84.128	119.239	0.00	0.00	N
ATOM	8597	CA	TYR	A	579	25.362	84.812	120.443	0.00	0.00	C
ATOM	8598	C	TYR	A	579	24.999	83.952	121.589	0.00	0.00	C
ATOM	8599	O	TYR	A	579	25.900	83.485	122.322	0.00	0.00	O
ATOM	8600	CB	TYR	A	579	24.646	86.198	120.490	0.00	0.00	C
ATOM	8601	CG	TYR	A	579	24.807	86.903	121.793	0.00	0.00	C
ATOM	8602	CD1	TYR	A	579	26.020	87.551	122.108	0.00	0.00	C
ATOM	8603	CD2	TYR	A	579	23.767	86.922	122.751	0.00	0.00	C
ATOM	8604	CE1	TYR	A	579	26.188	88.219	123.334	0.00	0.00	C
ATOM	8605	CE2	TYR	A	579	23.949	87.543	124.001	0.00	0.00	C
ATOM	8606	CZ	TYR	A	579	25.156	88.203	124.289	0.00	0.00	C
ATOM	8607	OH	TYR	A	579	25.332	88.828	125.473	0.00	0.00	O
ATOM	8608	HN	TYR	A	579	24.225	84.404	118.747	0.00	0.00	H
ATOM	8609	HCA	TYR	A	579	26.444	84.982	120.441	0.00	0.00	H
ATOM	8610	HCB	TYR	A	579	25.045	86.833	119.695	0.00	0.00	H
ATOM	8611	HCB	TYR	A	579	23.583	86.065	120.270	0.00	0.00	H
ATOM	8612	HCD1	TYR	A	579	26.789	87.536	121.445	0.00	0.00	H
ATOM	8613	HCD2	TYR	A	579	22.873	86.477	122.549	0.00	0.00	H
ATOM	8614	HCE1	TYR	A	579	27.063	88.708	123.530	0.00	0.00	H
ATOM	8615	HCE2	TYR	A	579	23.200	87.513	124.695	0.00	0.00	H
ATOM	8616	HOH	TYR	A	579	24.632	88.797	126.160	0.00	0.00	H
ATOM	8617	N	LEU	A	580	23.696	83.644	121.780	0.00	0.00	N
ATOM	8618	CA	LEU	A	580	23.167	82.818	122.820	0.00	0.00	C
ATOM	8619	C	LEU	A	580	23.821	81.490	122.814	0.00	0.00	C
ATOM	8620	O	LEU	A	580	24.344	81.082	123.872	0.00	0.00	O
ATOM	8621	CB	LEU	A	580	21.625	82.689	122.660	0.00	0.00	C
ATOM	8622	CG	LEU	A	580	20.843	84.039	122.721	0.00	0.00	C
ATOM	8623	CD1	LEU	A	580	19.380	83.834	122.258	0.00	0.00	C
ATOM	8624	CD2	LEU	A	580	20.888	84.697	124.129	0.00	0.00	C
ATOM	8625	HN	LEU	A	580	23.067	84.024	121.148	0.00	0.00	H
ATOM	8626	HCA	LEU	A	580	23.381	83.299	123.779	0.00	0.00	H
ATOM	8627	HCB	LEU	A	580	21.422	82.205	121.699	0.00	0.00	H
ATOM	8628	HCB	LEU	A	580	21.241	82.027	123.442	0.00	0.00	H
ATOM	8629	HCD1	LEU	A	580	18.855	83.142	122.911	0.00	0.00	H
ATOM	8630	HCD1	LEU	A	580	18.852	84.783	122.266	0.00	0.00	H
ATOM	8631	HCD1	LEU	A	580	19.351	83.444	121.240	0.00	0.00	H
ATOM	8632	HCD2	LEU	A	580	21.907	84.959	124.410	0.00	0.00	H
ATOM	8633	HCD2	LEU	A	580	20.305	85.618	124.137	0.00	0.00	H
ATOM	8634	HCD2	LEU	A	580	20.485	84.026	124.886	0.00	0.00	H
ATOM	8635	HCG	LEU	A	580	21.286	84.741	122.010	0.00	0.00	H
ATOM	8636	N	ALA	A	581	23.939	80.781	121.669	0.00	0.00	N
ATOM	8637	CA	ALA	A	581	24.641	79.541	121.530	0.00	0.00	C
ATOM	8638	C	ALA	A	581	26.053	79.612	122.012	0.00	0.00	C

ATOM	8639	O	ALA	A	581	26.393	78.842	122.938	0.00	0.00	O
ATOM	8640	CB	ALA	A	581	24.543	79.098	120.053	0.00	0.00	C
ATOM	8641	HN	ALA	A	581	23.515	81.153	120.881	0.00	0.00	H
ATOM	8642	HCA	ALA	A	581	24.103	78.793	122.125	0.00	0.00	H
ATOM	8643	HCb	ALA	A	581	24.987	79.851	119.403	0.00	0.00	H
ATOM	8644	HCb	ALA	A	581	25.057	78.146	119.902	0.00	0.00	H
ATOM	8645	HCb	ALA	A	581	23.496	78.965	119.771	0.00	0.00	H
ATOM	8646	N	THR	A	582	26.968	80.491	121.528	0.00	0.00	N
ATOM	8647	CA	THR	A	582	28.335	80.592	121.996	0.00	0.00	C
ATOM	8648	C	THR	A	582	28.432	80.940	123.441	0.00	0.00	C
ATOM	8649	O	THR	A	582	29.169	80.259	124.195	0.00	0.00	O
ATOM	8650	CB	THR	A	582	29.132	81.616	121.133	0.00	0.00	C
ATOM	8651	CG2	THR	A	582	30.626	81.762	121.506	0.00	0.00	C
ATOM	8652	OG1	THR	A	582	29.064	81.214	119.764	0.00	0.00	O
ATOM	8653	HN	THR	A	582	26.703	81.090	120.826	0.00	0.00	H
ATOM	8654	HCA	THR	A	582	28.805	79.616	121.845	0.00	0.00	H
ATOM	8655	HCb	THR	A	582	28.668	82.605	121.222	0.00	0.00	H
ATOM	8656	HCG2	THR	A	582	31.129	80.798	121.456	0.00	0.00	H
ATOM	8657	HCG2	THR	A	582	31.117	82.453	120.820	0.00	0.00	H
ATOM	8658	HCG2	THR	A	582	30.734	82.161	122.516	0.00	0.00	H
ATOM	8659	HOG1	THR	A	582	28.180	81.548	119.526	0.00	0.00	H
ATOM	8660	N	MET	A	583	27.752	81.996	123.938	0.00	0.00	N
ATOM	8661	CA	MET	A	583	27.823	82.481	125.285	0.00	0.00	C
ATOM	8662	C	MET	A	583	27.294	81.485	126.264	0.00	0.00	C
ATOM	8663	O	MET	A	583	27.962	81.247	127.297	0.00	0.00	O
ATOM	8664	CB	MET	A	583	27.089	83.851	125.348	0.00	0.00	C
ATOM	8665	CG	MET	A	583	27.738	84.984	124.503	0.00	0.00	C
ATOM	8666	SD	MET	A	583	29.241	85.666	125.250	0.00	0.00	S
ATOM	8667	CE	MET	A	583	28.516	87.038	126.176	0.00	0.00	C
ATOM	8668	HN	MET	A	583	27.157	82.463	123.352	0.00	0.00	H
ATOM	8669	HCA	MET	A	583	28.875	82.668	125.527	0.00	0.00	H
ATOM	8670	HCb	MET	A	583	26.064	83.712	124.997	0.00	0.00	H
ATOM	8671	HCb	MET	A	583	27.036	84.187	126.383	0.00	0.00	H
ATOM	8672	HCE	MET	A	583	28.165	87.803	125.489	0.00	0.00	H
ATOM	8673	HCE	MET	A	583	27.685	86.696	126.789	0.00	0.00	H
ATOM	8674	HCE	MET	A	583	29.276	87.474	126.823	0.00	0.00	H
ATOM	8675	HCG	MET	A	583	28.009	84.611	123.515	0.00	0.00	H
ATOM	8676	HCG	MET	A	583	27.009	85.778	124.355	0.00	0.00	H
ATOM	8677	N	ALA	A	584	26.153	80.784	126.041	0.00	0.00	N
ATOM	8678	CA	ALA	A	584	25.675	79.688	126.833	0.00	0.00	C
ATOM	8679	C	ALA	A	584	26.604	78.532	126.772	0.00	0.00	C
ATOM	8680	O	ALA	A	584	26.916	77.966	127.842	0.00	0.00	O
ATOM	8681	CB	ALA	A	584	24.258	79.274	126.375	0.00	0.00	C
ATOM	8682	HN	ALA	A	584	25.627	80.977	125.270	0.00	0.00	H
ATOM	8683	HCA	ALA	A	584	25.582	80.028	127.869	0.00	0.00	H
ATOM	8684	HCb	ALA	A	584	23.584	80.132	126.421	0.00	0.00	H
ATOM	8685	HCb	ALA	A	584	24.271	78.892	125.352	0.00	0.00	H
ATOM	8686	HCb	ALA	A	584	23.864	78.493	127.030	0.00	0.00	H
ATOM	8687	N	GLY	A	585	27.151	78.106	125.606	0.00	0.00	N
ATOM	8688	CA	GLY	A	585	28.165	77.101	125.476	0.00	0.00	C
ATOM	8689	C	GLY	A	585	29.322	77.321	126.357	0.00	0.00	C
ATOM	8690	O	GLY	A	585	29.721	76.399	127.100	0.00	0.00	O
ATOM	8691	HN	GLY	A	585	26.842	78.477	124.780	0.00	0.00	H
ATOM	8692	HCA	GLY	A	585	27.721	76.129	125.686	0.00	0.00	H
ATOM	8693	HCA	GLY	A	585	28.520	77.098	124.444	0.00	0.00	H
ATOM	8694	N	LEU	A	586	29.905	78.535	126.391	0.00	0.00	N
ATOM	8695	CA	LEU	A	586	30.892	78.940	127.347	0.00	0.00	C
ATOM	8696	C	LEU	A	586	30.381	78.825	128.747	0.00	0.00	C
ATOM	8697	O	LEU	A	586	30.908	77.986	129.514	0.00	0.00	O
ATOM	8698	CB	LEU	A	586	31.373	80.362	126.929	0.00	0.00	C
ATOM	8699	CG	LEU	A	586	32.509	81.006	127.778	0.00	0.00	C
ATOM	8700	CD1	LEU	A	586	33.764	80.105	127.885	0.00	0.00	C
ATOM	8701	CD2	LEU	A	586	32.906	82.378	127.168	0.00	0.00	C
ATOM	8702	HN	LEU	A	586	29.630	79.156	125.715	0.00	0.00	H
ATOM	8703	HCA	LEU	A	586	31.741	78.259	127.238	0.00	0.00	H
ATOM	8704	HCb	LEU	A	586	31.715	80.308	125.889	0.00	0.00	H
ATOM	8705	HCb	LEU	A	586	30.514	81.036	126.945	0.00	0.00	H
ATOM	8706	HCD1	LEU	A	586	34.086	79.782	126.894	0.00	0.00	H
ATOM	8707	HCD1	LEU	A	586	34.585	80.644	128.357	0.00	0.00	H
ATOM	8708	HCD1	LEU	A	586	33.554	79.224	128.495	0.00	0.00	H
ATOM	8709	HCD2	LEU	A	586	33.417	82.241	126.213	0.00	0.00	H
ATOM	8710	HCD2	LEU	A	586	32.026	82.997	126.992	0.00	0.00	H
ATOM	8711	HCD2	LEU	A	586	33.570	82.913	127.849	0.00	0.00	H
ATOM	8712	HCG	LEU	A	586	32.129	81.183	128.790	0.00	0.00	H
ATOM	8713	N	ALA	A	587	29.324	79.547	129.186	0.00	0.00	N
ATOM	8714	CA	ALA	A	587	28.815	79.579	130.534	0.00	0.00	C
ATOM	8715	C	ALA	A	587	28.481	78.256	131.144	0.00	0.00	C
ATOM	8716	O	ALA	A	587	28.740	78.055	132.354	0.00	0.00	O
ATOM	8717	CB	ALA	A	587	27.580	80.508	130.546	0.00	0.00	C
ATOM	8718	HN	ALA	A	587	28.890	80.110	128.545	0.00	0.00	H

ATOM	8719	HCA	ALA	A	587	29.584	80.053	131.153	0.00	0.00	
ATOM	8720	HC	ALA	A	587	27.828	81.482	130.128	0.00	0.00	
ATOM	8721	HC	ALA	A	587	26.769	80.076	129.960	0.00	0.00	
ATOM	8722	HC	ALA	A	587	27.232	80.662	131.565	0.00	0.00	
ATOM	8723	N	ALA	A	588	27.891	77.281	130.422	0.00	0.00	
ATOM	8724	CA	ALA	A	588	27.582	75.949	130.860	0.00	0.00	
ATOM	8725	C	ALA	A	588	28.633	74.940	130.527	0.00	0.00	
ATOM	8726	O	ALA	A	588	28.427	73.744	130.854	0.00	0.00	
ATOM	8727	CB	ALA	A	588	26.206	75.598	130.241	0.00	0.00	
ATOM	8728	HN	ALA	A	588	27.634	77.505	129.532	0.00	0.00	
ATOM	8729	HCA	ALA	A	588	27.461	75.924	131.947	0.00	0.00	
ATOM	8730	HC	ALA	A	588	25.457	76.337	130.533	0.00	0.00	
ATOM	8731	HC	ALA	A	588	26.266	75.571	129.151	0.00	0.00	
ATOM	8732	HC	ALA	A	588	25.870	74.625	130.602	0.00	0.00	
ATOM	8733	N	GLY	A	589	29.823	75.265	129.955	0.00	0.00	
ATOM	8734	CA	GLY	A	589	30.885	74.337	129.673	0.00	0.00	
ATOM	8735	C	GLY	A	589	30.569	73.271	128.698	0.00	0.00	
ATOM	8736	O	GLY	A	589	30.740	72.069	129.012	0.00	0.00	
ATOM	8737	HN	GLY	A	589	30.023	76.191	129.777	0.00	0.00	
ATOM	8738	HCA	GLY	A	589	31.723	74.908	129.269	0.00	0.00	
ATOM	8739	HCA	GLY	A	589	31.219	73.889	130.612	0.00	0.00	
ATOM	8740	N	ALA	A	590	30.129	73.613	127.470	0.00	0.00	
ATOM	8741	CA	ALA	A	590	29.842	72.720	126.388	0.00	0.00	
ATOM	8742	C	ALA	A	590	31.039	72.297	125.616	0.00	0.00	
ATOM	8743	O	ALA	A	590	32.134	72.896	125.731	0.00	0.00	
ATOM	8744	CB	ALA	A	590	28.810	73.409	125.459	0.00	0.00	
ATOM	8745	HN	ALA	A	590	30.012	74.546	127.319	0.00	0.00	
ATOM	8746	HCA	ALA	A	590	29.380	71.821	126.794	0.00	0.00	
ATOM	8747	HC	ALA	A	590	27.938	73.724	126.035	0.00	0.00	
ATOM	8748	HC	ALA	A	590	29.255	74.283	124.981	0.00	0.00	
ATOM	8749	HC	ALA	A	590	28.470	72.727	124.678	0.00	0.00	
ATOM	8750	N	ASP	A	591	30.902	71.262	124.757	0.00	0.00	
ATOM	8751	CA	ASP	A	591	31.894	70.796	123.836	0.00	0.00	
ATOM	8752	C	ASP	A	591	31.882	71.639	122.607	0.00	0.00	
ATOM	8753	O	ASP	A	591	32.918	72.256	122.259	0.00	0.00	
ATOM	8754	CB	ASP	A	591	31.609	69.295	123.544	0.00	0.00	
ATOM	8755	CG	ASP	A	591	32.612	68.703	122.650	0.00	0.00	
ATOM	8756	OD1	ASP	A	591	33.770	68.469	123.053	0.00	0.00	
ATOM	8757	OD2	ASP	A	591	32.354	68.463	121.454	0.00	0.00	
ATOM	8758	HN	ASP	A	591	30.044	70.840	124.745	0.00	0.00	
ATOM	8759	HCA	ASP	A	591	32.880	70.862	124.306	0.00	0.00	
ATOM	8760	HC	ASP	A	591	31.608	68.727	124.477	0.00	0.00	
ATOM	8761	HC	ASP	A	591	30.621	69.184	123.093	0.00	0.00	
ATOM	8762	N	ALA	A	592	30.751	71.708	121.867	0.00	0.00	
ATOM	8763	CA	ALA	A	592	30.585	72.400	120.623	0.00	0.00	
ATOM	8764	C	ALA	A	592	29.327	73.196	120.604	0.00	0.00	
ATOM	8765	O	ALA	A	592	28.246	72.654	120.942	0.00	0.00	
ATOM	8766	CB	ALA	A	592	30.597	71.342	119.491	0.00	0.00	
ATOM	8767	HN	ALA	A	592	29.991	71.209	122.201	0.00	0.00	
ATOM	8768	HCA	ALA	A	592	31.426	73.077	120.440	0.00	0.00	
ATOM	8769	HC	ALA	A	592	31.545	70.798	119.498	0.00	0.00	
ATOM	8770	HC	ALA	A	592	29.787	70.622	119.622	0.00	0.00	
ATOM	8771	HC	ALA	A	592	30.484	71.825	118.519	0.00	0.00	
ATOM	8772	N	ALA	A	593	29.352	74.478	120.164	0.00	0.00	
ATOM	8773	CA	ALA	A	593	28.208	75.294	119.874	0.00	0.00	
ATOM	8774	C	ALA	A	593	28.169	75.550	118.410	0.00	0.00	
ATOM	8775	O	ALA	A	593	29.056	76.267	117.891	0.00	0.00	
ATOM	8776	CB	ALA	A	593	28.233	76.590	120.717	0.00	0.00	
ATOM	8777	HN	ALA	A	593	30.223	74.860	119.983	0.00	0.00	
ATOM	8778	HCA	ALA	A	593	27.296	74.772	120.150	0.00	0.00	
ATOM	8779	HC	ALA	A	593	28.280	76.346	121.781	0.00	0.00	
ATOM	8780	HC	ALA	A	593	29.094	77.206	120.459	0.00	0.00	
ATOM	8781	HC	ALA	A	593	27.327	77.172	120.540	0.00	0.00	
ATOM	8782	N	TYR	A	594	27.214	74.986	117.636	0.00	0.00	
ATOM	8783	CA	TYR	A	594	27.113	75.094	116.202	0.00	0.00	
ATOM	8784	C	TYR	A	594	26.341	76.307	115.804	0.00	0.00	
ATOM	8785	O	TYR	A	594	25.150	76.434	116.183	0.00	0.00	
ATOM	8786	CB	TYR	A	594	26.510	73.783	115.620	0.00	0.00	
ATOM	8787	CG	TYR	A	594	27.380	72.589	115.814	0.00	0.00	
ATOM	8788	CD1	TYR	A	594	28.600	72.473	115.105	0.00	0.00	
ATOM	8789	CD2	TYR	A	594	27.012	71.547	116.697	0.00	0.00	
ATOM	8790	CE1	TYR	A	594	29.429	71.349	115.274	0.00	0.00	
ATOM	8791	CE2	TYR	A	594	27.847	70.428	116.873	0.00	0.00	
ATOM	8792	CZ	TYR	A	594	29.058	70.331	116.170	0.00	0.00	
ATOM	8793	OH	TYR	A	594	29.855	69.256	116.359	0.00	0.00	
ATOM	8794	HN	TYR	A	594	26.567	74.461	118.110	0.00	0.00	
ATOM	8795	HCA	TYR	A	594	28.120	75.190	115.783	0.00	0.00	
ATOM	8796	HC	TYR	A	594	25.534	73.613	116.073	0.00	0.00	
ATOM	8797	HC	TYR	A	594	26.333	73.906	114.550	0.00	0.00	
ATOM	8798	HCD1	TYR	A	594	28.890	73.207	114.456	0.00	0.00	

ATOM	8799	HCD2	TYR	A	594	26.135	71.596	117.222	0.00	0.00		H
ATOM	8800	HCE1	TYR	A	594	30.302	71.278	114.747	0.00	0.00		H
ATOM	8801	HCE2	TYR	A	594	27.570	69.678	117.507	0.00	0.00		H
ATOM	8802	HOH	TYR	A	594	30.631	69.119	115.782	0.00	0.00		H
ATOM	8803	N	ILE	A	595	26.957	77.267	115.067	0.00	0.00		N
ATOM	8804	CA	ILE	A	595	26.446	78.565	114.685	0.00	0.00		C
ATOM	8805	C	ILE	A	595	26.520	78.806	113.211	0.00	0.00		C
ATOM	8806	O	ILE	A	595	26.921	77.890	112.455	0.00	0.00		O
ATOM	8807	CB	ILE	A	595	27.172	79.667	115.530	0.00	0.00		C
ATOM	8808	CG1	ILE	A	595	28.681	79.840	115.169	0.00	0.00		C
ATOM	8809	CG2	ILE	A	595	26.962	79.422	117.055	0.00	0.00		C
ATOM	8810	CD1	ILE	A	595	29.297	81.171	115.660	0.00	0.00		C
ATOM	8811	HN	ILE	A	595	27.865	77.073	114.789	0.00	0.00		H
ATOM	8812	HCA	ILE	A	595	25.383	78.631	114.924	0.00	0.00		H
ATOM	8813	HCB	ILE	A	595	26.675	80.610	115.293	0.00	0.00		H
ATOM	8814	HCD1	ILE	A	595	28.757	82.018	115.235	0.00	0.00		H
ATOM	8815	HCD1	ILE	A	595	29.254	81.239	116.745	0.00	0.00		H
ATOM	8816	HCD1	ILE	A	595	30.341	81.239	115.353	0.00	0.00		H
ATOM	8817	HCG1	ILE	A	595	29.252	79.001	115.567	0.00	0.00		H
ATOM	8818	HCG1	ILE	A	595	28.800	79.826	114.085	0.00	0.00		H
ATOM	8819	HCG2	ILE	A	595	25.899	79.294	117.264	0.00	0.00		H
ATOM	8820	HCG2	ILE	A	595	27.487	78.528	117.386	0.00	0.00		H
ATOM	8821	HCG2	ILE	A	595	27.322	80.263	117.645	0.00	0.00		H
ATOM	8822	N	PHE	A	596	26.194	80.004	112.661	0.00	0.00		N
ATOM	8823	CA	PHE	A	596	26.077	80.285	111.253	0.00	0.00		C
ATOM	8824	C	PHE	A	596	27.338	80.917	110.782	0.00	0.00		C
ATOM	8825	O	PHE	A	596	27.940	80.508	109.762	0.00	0.00		O
ATOM	8826	CB	PHE	A	596	24.837	81.216	111.056	0.00	0.00		C
ATOM	8827	CG	PHE	A	596	24.636	81.627	109.641	0.00	0.00		C
ATOM	8828	CD1	PHE	A	596	24.957	82.935	109.209	0.00	0.00		C
ATOM	8829	CD2	PHE	A	596	24.146	80.701	108.692	0.00	0.00		C
ATOM	8830	CE1	PHE	A	596	24.842	83.291	107.853	0.00	0.00		C
ATOM	8831	CE2	PHE	A	596	24.028	81.054	107.336	0.00	0.00		C
ATOM	8832	CZ	PHE	A	596	24.393	82.344	106.915	0.00	0.00		C
ATOM	8833	HN	PHE	A	596	26.098	80.781	113.232	0.00	0.00		H
ATOM	8834	HCA	PHE	A	596	25.909	79.367	110.681	0.00	0.00		H
ATOM	8835	HCB	PHE	A	596	23.934	80.711	111.405	0.00	0.00		H
ATOM	8836	HCB	PHE	A	596	24.948	82.102	111.687	0.00	0.00		H
ATOM	8837	HCD1	PHE	A	596	25.291	83.634	109.877	0.00	0.00		H
ATOM	8838	HCD2	PHE	A	596	23.875	79.761	108.983	0.00	0.00		H
ATOM	8839	HCE1	PHE	A	596	25.090	84.235	107.548	0.00	0.00		H
ATOM	8840	HCE2	PHE	A	596	23.681	80.372	106.658	0.00	0.00		H
ATOM	8841	HCZ	PHE	A	596	24.333	82.591	105.927	0.00	0.00		H
ATOM	8842	N	GLU	A	597	27.816	81.953	111.496	0.00	0.00		N
ATOM	8843	CA	GLU	A	597	28.937	82.798	111.240	0.00	0.00		C
ATOM	8844	C	GLU	A	597	30.252	82.098	111.248	0.00	0.00		C
ATOM	8845	O	GLU	A	597	31.247	82.673	110.746	0.00	0.00		O
ATOM	8846	CB	GLU	A	597	28.902	83.936	112.307	0.00	0.00		C
ATOM	8847	CG	GLU	A	597	27.496	84.569	112.580	0.00	0.00		C
ATOM	8848	CD	GLU	A	597	26.743	83.979	113.715	0.00	0.00		C
ATOM	8849	OE1	GLU	A	597	26.407	82.773	113.801	0.00	0.00		O
ATOM	8850	OE2	GLU	A	597	26.414	84.709	114.667	0.00	0.00		O
ATOM	8851	HN	GLU	A	597	27.315	82.184	112.272	0.00	0.00		H
ATOM	8852	HCA	GLU	A	597	28.792	83.241	110.250	0.00	0.00		H
ATOM	8853	HCB	GLU	A	597	29.304	83.558	113.251	0.00	0.00		H
ATOM	8854	HCB	GLU	A	597	29.579	84.728	111.971	0.00	0.00		H
ATOM	8855	HCG	GLU	A	597	27.638	85.634	112.790	0.00	0.00		H
ATOM	8856	HCG	GLU	A	597	26.870	84.510	111.690	0.00	0.00		H
ATOM	8857	N	GLU	A	598	30.365	80.855	111.770	0.00	0.00		N
ATOM	8858	CA	GLU	A	598	31.502	79.985	111.707	0.00	0.00		C
ATOM	8859	C	GLU	A	598	31.064	78.824	110.873	0.00	0.00		C
ATOM	8860	O	GLU	A	598	30.479	77.882	111.465	0.00	0.00		O
ATOM	8861	CB	GLU	A	598	31.962	79.627	113.153	0.00	0.00		C
ATOM	8862	CG	GLU	A	598	33.206	78.694	113.215	0.00	0.00		C
ATOM	8863	CD	GLU	A	598	33.605	78.391	114.598	0.00	0.00		C
ATOM	8864	OE1	GLU	A	598	34.046	79.282	115.353	0.00	0.00		O
ATOM	8865	OE2	GLU	A	598	33.467	77.251	115.092	0.00	0.00		O
ATOM	8866	HN	GLU	A	598	29.568	80.497	112.188	0.00	0.00		H
ATOM	8867	HCA	GLU	A	598	32.353	80.478	111.233	0.00	0.00		H
ATOM	8868	HCB	GLU	A	598	32.197	80.559	113.678	0.00	0.00		H
ATOM	8869	HCB	GLU	A	598	31.141	79.144	113.688	0.00	0.00		H
ATOM	8870	HCG	GLU	A	598	32.985	77.755	112.702	0.00	0.00		H
ATOM	8871	HCG	GLU	A	598	34.053	79.163	112.710	0.00	0.00		H
ATOM	8872	N	PRO	A	599	31.177	78.767	109.507	0.00	0.00		N
ATOM	8873	CA	PRO	A	599	30.643	77.678	108.726	0.00	0.00		C
ATOM	8874	C	PRO	A	599	31.395	76.443	108.942	0.00	0.00		C
ATOM	8875	O	PRO	A	599	32.594	76.411	108.697	0.00	0.00		O
ATOM	8876	CB	PRO	A	599	30.677	78.187	107.265	0.00	0.00		C
ATOM	8877	CG	PRO	A	599	31.812	79.218	107.262	0.00	0.00		C
ATOM	8878	CD	PRO	A	599	31.791	79.778	108.695	0.00	0.00		C



ATOM	8879	HCA	PRO	A	599	29.591	77.527	108.996	0.00	0.00	H
ATOM	8880	HCB	PRO	A	599	30.850	77.389	106.536	0.00	0.00	H
ATOM	8881	HCB	PRO	A	599	29.733	78.685	107.019	0.00	0.00	H
ATOM	8882	HCD	PRO	A	599	32.814	79.995	109.014	0.00	0.00	H
ATOM	8883	HCD	PRO	A	599	31.195	80.693	108.728	0.00	0.00	H
ATOM	8884	HCG	PRO	A	599	32.768	78.722	107.062	0.00	0.00	H
ATOM	8885	HCG	PRO	A	599	31.651	80.000	106.515	0.00	0.00	H
ATOM	8886	N	PHE	A	600	30.771	75.381	109.416	0.00	0.00	N
ATOM	8887	CA	PHE	A	600	31.346	74.110	109.758	0.00	0.00	C
ATOM	8888	C	PHE	A	600	30.928	73.069	108.780	0.00	0.00	C
ATOM	8889	O	PHE	A	600	29.748	73.058	108.357	0.00	0.00	O
ATOM	8890	CB	PHE	A	600	30.977	73.739	111.226	0.00	0.00	C
ATOM	8891	CG	PHE	A	600	29.539	73.421	111.456	0.00	0.00	C
ATOM	8892	CD1	PHE	A	600	28.583	74.453	111.602	0.00	0.00	C
ATOM	8893	CD2	PHE	A	600	29.103	72.077	111.526	0.00	0.00	C
ATOM	8894	CE1	PHE	A	600	27.225	74.148	111.803	0.00	0.00	C
ATOM	8895	CE2	PHE	A	600	27.747	71.771	111.743	0.00	0.00	C
ATOM	8896	CZ	PHE	A	600	26.806	72.807	111.880	0.00	0.00	C
ATOM	8897	HN	PHE	A	600	29.817	75.469	109.555	0.00	0.00	H
ATOM	8898	HCA	PHE	A	600	32.439	74.176	109.727	0.00	0.00	H
ATOM	8899	HCB	PHE	A	600	31.590	72.885	111.525	0.00	0.00	H
ATOM	8900	HCB	PHE	A	600	31.270	74.559	111.889	0.00	0.00	H
ATOM	8901	HCD1	PHE	A	600	28.870	75.435	111.568	0.00	0.00	H
ATOM	8902	HCD2	PHE	A	600	29.771	71.312	111.415	0.00	0.00	H
ATOM	8903	HCE1	PHE	A	600	26.544	74.902	111.901	0.00	0.00	H
ATOM	8904	HCE2	PHE	A	600	27.447	70.796	111.799	0.00	0.00	H
ATOM	8905	HCZ	PHE	A	600	25.821	72.588	112.042	0.00	0.00	H
ATOM	8906	N	THR	A	601	31.810	72.125	108.382	0.00	0.00	N
ATOM	8907	CA	THR	A	601	31.540	71.012	107.500	0.00	0.00	C
ATOM	8908	C	THR	A	601	31.404	69.741	108.260	0.00	0.00	C
ATOM	8909	O	THR	A	601	31.881	69.626	109.417	0.00	0.00	O
ATOM	8910	CB	THR	A	601	32.609	70.899	106.352	0.00	0.00	C
ATOM	8911	CG2	THR	A	601	34.051	71.291	106.734	0.00	0.00	C
ATOM	8912	OG1	THR	A	601	32.708	69.574	105.821	0.00	0.00	O
ATOM	8913	HN	THR	A	601	32.693	72.197	108.757	0.00	0.00	H
ATOM	8914	HCA	THR	A	601	30.582	71.163	107.001	0.00	0.00	H
ATOM	8915	HCB	THR	A	601	32.308	71.562	105.534	0.00	0.00	H
ATOM	8916	HCG2	THR	A	601	34.366	70.734	107.615	0.00	0.00	H
ATOM	8917	HCG2	THR	A	601	34.736	71.072	105.912	0.00	0.00	H
ATOM	8918	HCG2	THR	A	601	34.111	72.360	106.944	0.00	0.00	H
ATOM	8919	HOG1	THR	A	601	31.840	69.418	105.388	0.00	0.00	H
ATOM	8920	N	ILE	A	602	30.826	68.663	107.666	0.00	0.00	N
ATOM	8921	CA	ILE	A	602	31.026	67.286	108.039	0.00	0.00	C
ATOM	8922	C	ILE	A	602	32.431	66.985	108.455	0.00	0.00	C
ATOM	8923	O	ILE	A	602	32.614	66.238	109.443	0.00	0.00	O
ATOM	8924	CB	ILE	A	602	30.483	66.294	106.949	0.00	0.00	C
ATOM	8925	CG1	ILE	A	602	30.469	64.792	107.394	0.00	0.00	C
ATOM	8926	CG2	ILE	A	602	31.219	66.425	105.584	0.00	0.00	C
ATOM	8927	CD1	ILE	A	602	29.599	64.478	108.636	0.00	0.00	C
ATOM	8928	HN	ILE	A	602	30.200	68.832	106.962	0.00	0.00	H
ATOM	8929	HCA	ILE	A	602	30.376	67.151	108.897	0.00	0.00	H
ATOM	8930	HCB	ILE	A	602	29.439	66.565	106.763	0.00	0.00	H
ATOM	8931	HCD1	ILE	A	602	30.043	64.894	109.540	0.00	0.00	H
ATOM	8932	HCD1	ILE	A	602	28.593	64.883	108.511	0.00	0.00	H
ATOM	8933	HCD1	ILE	A	602	29.521	63.397	108.768	0.00	0.00	H
ATOM	8934	HCG1	ILE	A	602	30.076	64.187	106.571	0.00	0.00	H
ATOM	8935	HCG1	ILE	A	602	31.490	64.449	107.584	0.00	0.00	H
ATOM	8936	HCG2	ILE	A	602	31.155	67.445	105.208	0.00	0.00	H
ATOM	8937	HCG2	ILE	A	602	32.270	66.149	105.679	0.00	0.00	H
ATOM	8938	HCG2	ILE	A	602	30.760	65.773	104.838	0.00	0.00	H
ATOM	8939	N	ARG	A	603	33.497	67.571	107.849	0.00	0.00	N
ATOM	8940	CA	ARG	A	603	34.876	67.343	108.217	0.00	0.00	C
ATOM	8941	C	ARG	A	603	35.257	67.905	109.553	0.00	0.00	C
ATOM	8942	O	ARG	A	603	36.266	67.439	110.132	0.00	0.00	O
ATOM	8943	CB	ARG	A	603	35.850	67.878	107.125	0.00	0.00	C
ATOM	8944	CG	ARG	A	603	35.575	67.367	105.682	0.00	0.00	C
ATOM	8945	CD	ARG	A	603	36.534	68.006	104.648	0.00	0.00	C
ATOM	8946	NE	ARG	A	603	36.193	67.585	103.329	0.00	0.00	N
ATOM	8947	CZ	ARG	A	603	36.771	68.019	102.206	0.00	0.00	C
ATOM	8948	NH1	ARG	A	603	37.756	68.905	102.175	0.00	0.00	N
ATOM	8949	NH2	ARG	A	603	36.341	67.547	101.050	0.00	0.00	N
ATOM	8950	HN	ARG	A	603	33.295	68.208	107.155	0.00	0.00	H
ATOM	8951	HNE	ARG	A	603	35.487	66.933	103.229	0.00	0.00	H
ATOM	8952	HNH1	ARG	A	603	38.096	69.273	102.998	0.00	0.00	H
ATOM	8953	HNH1	ARG	A	603	38.129	69.181	101.329	0.00	0.00	H
ATOM	8954	HNH2	ARG	A	603	35.623	66.902	101.030	0.00	0.00	H
ATOM	8955	HNH2	ARG	A	603	36.744	67.850	100.228	0.00	0.00	H
ATOM	8956	HCA	ARG	A	603	35.021	66.258	108.269	0.00	0.00	H
ATOM	8957	HCB	ARG	A	603	35.816	68.968	107.125	0.00	0.00	H
ATOM	8958	HCB	ARG	A	603	36.871	67.589	107.396	0.00	0.00	H

ATOM	8959	HCD	ARG	A	603	36.456	69.097	104.713	0.00	0.00		H
ATOM	8960	HCD	ARG	A	603	37.564	67.713	104.875	0.00	0.00		H
ATOM	8961	HCG	ARG	A	603	35.687	66.279	105.655	0.00	0.00		H
ATOM	8962	HCG	ARG	A	603	34.550	67.610	105.395	0.00	0.00		H
ATOM	8963	N	ASP	A	604	34.529	68.869	110.165	0.00	0.00		N
ATOM	8964	CA	ASP	A	604	34.775	69.474	111.449	0.00	0.00		C
ATOM	8965	C	ASP	A	604	33.888	68.812	112.437	0.00	0.00		C
ATOM	8966	O	ASP	A	604	34.313	68.460	113.561	0.00	0.00		O
ATOM	8967	CB	ASP	A	604	34.456	70.998	111.428	0.00	0.00		C
ATOM	8968	CG	ASP	A	604	35.115	71.749	110.355	0.00	0.00		C
ATOM	8969	OD1	ASP	A	604	36.357	71.741	110.223	0.00	0.00		O
ATOM	8970	OD2	ASP	A	604	34.433	72.436	109.565	0.00	0.00		O
ATOM	8971	HN	ASP	A	604	33.707	69.134	109.761	0.00	0.00		H
ATOM	8972	HCA	ASP	A	604	35.820	69.345	111.754	0.00	0.00		H
ATOM	8973	HCB	ASP	A	604	33.377	71.149	111.339	0.00	0.00		H
ATOM	8974	HCB	ASP	A	604	34.771	71.441	112.375	0.00	0.00		H
ATOM	8975	N	LEU	A	605	32.604	68.573	112.090	0.00	0.00		N
ATOM	8976	CA	LEU	A	605	31.647	67.832	112.859	0.00	0.00		C
ATOM	8977	C	LEU	A	605	32.140	66.462	113.192	0.00	0.00		C
ATOM	8978	O	LEU	A	605	32.155	66.092	114.390	0.00	0.00		O
ATOM	8979	CB	LEU	A	605	30.334	67.855	112.033	0.00	0.00		C
ATOM	8980	CG	LEU	A	605	29.168	66.947	112.509	0.00	0.00		C
ATOM	8981	CD1	LEU	A	605	28.723	67.261	113.957	0.00	0.00		C
ATOM	8982	CD2	LEU	A	605	27.973	67.059	111.524	0.00	0.00		C
ATOM	8983	HN	LEU	A	605	32.333	68.909	111.229	0.00	0.00		H
ATOM	8984	HCA	LEU	A	605	31.469	68.380	113.789	0.00	0.00		H
ATOM	8985	HCB	LEU	A	605	29.977	68.887	111.975	0.00	0.00		H
ATOM	8986	HCB	LEU	A	605	30.586	67.543	111.025	0.00	0.00		H
ATOM	8987	HCD1	LEU	A	605	28.453	68.313	114.050	0.00	0.00		H
ATOM	8988	HCD1	LEU	A	605	27.864	66.647	114.232	0.00	0.00		H
ATOM	8989	HCD1	LEU	A	605	29.523	67.040	114.663	0.00	0.00		H
ATOM	8990	HCD2	LEU	A	605	27.593	68.082	111.490	0.00	0.00		H
ATOM	8991	HCD2	LEU	A	605	28.277	66.772	110.516	0.00	0.00		H
ATOM	8992	HCD2	LEU	A	605	27.162	66.397	111.830	0.00	0.00		H
ATOM	8993	HCG	LEU	A	605	29.523	65.914	112.484	0.00	0.00		H
ATOM	8994	N	GLN	A	606	32.629	65.628	112.242	0.00	0.00		N
ATOM	8995	CA	GLN	A	606	33.213	64.338	112.492	0.00	0.00		C
ATOM	8996	C	GLN	A	606	34.378	64.407	113.381	0.00	0.00		C
ATOM	8997	O	GLN	A	606	34.476	63.580	114.277	0.00	0.00		O
ATOM	8998	CB	GLN	A	606	33.535	63.662	111.127	0.00	0.00		C
ATOM	8999	CG	GLN	A	606	33.921	62.160	111.251	0.00	0.00		C
ATOM	9000	CD	GLN	A	606	34.107	61.512	109.940	0.00	0.00		C
ATOM	9001	NE2	GLN	A	606	33.300	60.535	109.514	0.00	0.00		N
ATOM	9002	OE1	GLN	A	606	35.031	61.859	109.175	0.00	0.00		O
ATOM	9003	HN	GLN	A	606	32.600	65.908	111.329	0.00	0.00		H
ATOM	9004	HNE2	GLN	A	606	32.567	60.231	110.068	0.00	0.00		H
ATOM	9005	HNE2	GLN	A	606	33.454	60.138	108.644	0.00	0.00		H
ATOM	9006	HCA	GLN	A	606	32.435	63.733	112.970	0.00	0.00		H
ATOM	9007	HCB	GLN	A	606	32.645	63.726	110.491	0.00	0.00		H
ATOM	9008	HCB	GLN	A	606	34.341	64.209	110.628	0.00	0.00		H
ATOM	9009	HCG	GLN	A	606	34.854	62.064	111.808	0.00	0.00		H
ATOM	9010	HCG	GLN	A	606	33.144	61.632	111.809	0.00	0.00		H
ATOM	9011	N	ALA	A	607	35.286	65.365	113.272	0.00	0.00		N
ATOM	9012	CA	ALA	A	607	36.368	65.597	114.196	0.00	0.00		C
ATOM	9013	C	ALA	A	607	35.888	65.883	115.582	0.00	0.00		C
ATOM	9014	O	ALA	A	607	36.387	65.239	116.533	0.00	0.00		O
ATOM	9015	CB	ALA	A	607	37.281	66.723	113.656	0.00	0.00		C
ATOM	9016	HN	ALA	A	607	35.200	65.978	112.527	0.00	0.00		H
ATOM	9017	HCA	ALA	A	607	36.980	64.688	114.222	0.00	0.00		H
ATOM	9018	HCB	ALA	A	607	36.759	67.678	113.629	0.00	0.00		H
ATOM	9019	HCB	ALA	A	607	38.161	66.831	114.295	0.00	0.00		H
ATOM	9020	HCB	ALA	A	607	37.621	66.483	112.646	0.00	0.00		H
ATOM	9021	N	ASN	A	608	34.903	66.784	115.824	0.00	0.00		N
ATOM	9022	CA	ASN	A	608	34.259	66.999	117.099	0.00	0.00		C
ATOM	9023	C	ASN	A	608	33.699	65.748	117.698	0.00	0.00		C
ATOM	9024	O	ASN	A	608	33.956	65.445	118.890	0.00	0.00		O
ATOM	9025	CB	ASN	A	608	33.140	68.078	117.008	0.00	0.00		C
ATOM	9026	CG	ASN	A	608	33.539	69.450	116.642	0.00	0.00		C
ATOM	9027	ND2	ASN	A	608	32.588	70.366	116.443	0.00	0.00		N
ATOM	9028	OD1	ASN	A	608	34.718	69.841	116.511	0.00	0.00		O
ATOM	9029	HN	ASN	A	608	34.641	67.325	115.080	0.00	0.00		H
ATOM	9030	HND2	ASN	A	608	31.675	70.100	116.503	0.00	0.00		H
ATOM	9031	HND2	ASN	A	608	32.830	71.277	116.225	0.00	0.00		H
ATOM	9032	HCA	ASN	A	608	35.024	67.367	117.775	0.00	0.00		H
ATOM	9033	HCB	ASN	A	608	32.392	67.745	116.291	0.00	0.00		H
ATOM	9034	HCB	ASN	A	608	32.648	68.154	117.983	0.00	0.00		H
ATOM	9035	N	VAL	A	609	32.934	64.922	116.946	0.00	0.00		N
ATOM	9036	CA	VAL	A	609	32.464	63.621	117.360	0.00	0.00		C
ATOM	9037	C	VAL	A	609	33.610	62.762	117.796	0.00	0.00		C
ATOM	9038	O	VAL	A	609	33.633	62.329	118.979	0.00	0.00		O

ATOM	9039	CB	VAL	A	609	31.615	62.967	116.217	0.00	0.00		C
ATOM	9040	CG1	VAL	A	609	31.205	61.505	116.533	0.00	0.00		C
ATOM	9041	CG2	VAL	A	609	30.328	63.769	115.865	0.00	0.00		C
ATOM	9042	HN	VAL	A	609	32.693	65.248	116.076	0.00	0.00		H
ATOM	9043	HCA	VAL	A	609	31.800	63.766	118.218	0.00	0.00		H
ATOM	9044	HCB	VAL	A	609	32.232	62.936	115.317	0.00	0.00		H
ATOM	9045	HCG1	VAL	A	609	30.654	61.449	117.475	0.00	0.00		H
ATOM	9046	HCG1	VAL	A	609	30.569	61.132	115.733	0.00	0.00		H
ATOM	9047	HCG1	VAL	A	609	32.078	60.853	116.597	0.00	0.00		H
ATOM	9048	HCG2	VAL	A	609	30.511	64.841	115.849	0.00	0.00		H
ATOM	9049	HCG2	VAL	A	609	29.956	63.474	114.883	0.00	0.00		H
ATOM	9050	HCG2	VAL	A	609	29.544	63.575	116.594	0.00	0.00		H
ATOM	9051	N	GLU	A	610	34.639	62.510	116.942	0.00	0.00		N
ATOM	9052	CA	GLU	A	610	35.846	61.770	117.224	0.00	0.00		C
ATOM	9053	C	GLU	A	610	36.833	62.584	118.007	0.00	0.00		C
ATOM	9054	O	GLU	A	610	38.039	62.709	117.687	0.00	0.00		O
ATOM	9055	CB	GLU	A	610	36.423	61.201	115.892	0.00	0.00		C
ATOM	9056	CG	GLU	A	610	35.453	60.245	115.135	0.00	0.00		C
ATOM	9057	CD	GLU	A	610	36.065	59.628	113.947	0.00	0.00		C
ATOM	9058	OE1	GLU	A	610	36.470	60.321	112.990	0.00	0.00		O
ATOM	9059	OE2	GLU	A	610	36.196	58.389	113.849	0.00	0.00		O
ATOM	9060	HN	GLU	A	610	34.570	62.887	116.065	0.00	0.00		H
ATOM	9061	HCA	GLU	A	610	35.591	60.911	117.852	0.00	0.00		H
ATOM	9062	HCB	GLU	A	610	36.693	62.034	115.235	0.00	0.00		H
ATOM	9063	HCB	GLU	A	610	37.339	60.646	116.119	0.00	0.00		H
ATOM	9064	HCG	GLU	A	610	35.121	59.456	115.814	0.00	0.00		H
ATOM	9065	HCG	GLU	A	610	34.570	60.794	114.804	0.00	0.00		H
ATOM	9066	N	HSE	A	611	36.361	63.145	119.132	0.00	0.00		N
ATOM	9067	CA	HSE	A	611	37.034	63.886	120.156	0.00	0.00		C
ATOM	9068	C	HSE	A	611	36.177	63.740	121.357	0.00	0.00		C
ATOM	9069	O	HSE	A	611	36.666	63.217	122.386	0.00	0.00		O
ATOM	9070	CB	HSE	A	611	37.270	65.382	119.803	0.00	0.00		C
ATOM	9071	CG	HSE	A	611	37.899	66.117	120.919	0.00	0.00		C
ATOM	9072	CD2	HSE	A	611	37.293	67.012	121.796	0.00	0.00		C
ATOM	9073	ND1	HSE	A	611	39.183	65.992	121.286	0.00	0.00		N
ATOM	9074	CE1	HSE	A	611	39.370	66.800	122.342	0.00	0.00		C
ATOM	9075	NE2	HSE	A	611	38.230	67.438	122.650	0.00	0.00		N
ATOM	9076	HN	HSE	A	611	35.427	62.986	119.227	0.00	0.00		H
ATOM	9077	HNE2	HSE	A	611	38.097	68.086	123.346	0.00	0.00		H
ATOM	9078	HCA	HSE	A	611	38.006	63.417	120.349	0.00	0.00		H
ATOM	9079	HCB	HSE	A	611	37.924	65.453	118.931	0.00	0.00		H
ATOM	9080	HCB	HSE	A	611	36.330	65.864	119.546	0.00	0.00		H
ATOM	9081	HCD2	HSE	A	611	36.311	67.290	121.797	0.00	0.00		H
ATOM	9082	HCE1	HSE	A	611	40.261	66.900	122.828	0.00	0.00		H
ATOM	9083	N	LEU	A	612	34.868	64.106	121.316	0.00	0.00		N
ATOM	9084	CA	LEU	A	612	33.927	63.857	122.370	0.00	0.00		C
ATOM	9085	C	LEU	A	612	33.883	62.408	122.717	0.00	0.00		C
ATOM	9086	O	LEU	A	612	34.034	62.086	123.916	0.00	0.00		O
ATOM	9087	CB	LEU	A	612	32.524	64.447	122.032	0.00	0.00		C
ATOM	9088	CG	LEU	A	612	31.466	64.379	123.187	0.00	0.00		C
ATOM	9089	CD1	LEU	A	612	31.914	65.114	124.482	0.00	0.00		C
ATOM	9090	CD2	LEU	A	612	30.095	64.937	122.727	0.00	0.00		C
ATOM	9091	HN	LEU	A	612	34.554	64.544	120.519	0.00	0.00		H
ATOM	9092	HCA	LEU	A	612	34.308	64.412	123.230	0.00	0.00		H
ATOM	9093	HCB	LEU	A	612	32.654	65.496	121.746	0.00	0.00		H
ATOM	9094	HCB	LEU	A	612	32.131	63.922	121.158	0.00	0.00		H
ATOM	9095	HCD1	LEU	A	612	32.762	64.607	124.941	0.00	0.00		H
ATOM	9096	HCD1	LEU	A	612	32.195	66.144	124.257	0.00	0.00		H
ATOM	9097	HCD1	LEU	A	612	31.112	65.126	125.221	0.00	0.00		H
ATOM	9098	HCD2	LEU	A	612	30.201	65.949	122.329	0.00	0.00		H
ATOM	9099	HCD2	LEU	A	612	29.671	64.292	121.959	0.00	0.00		H
ATOM	9100	HCD2	LEU	A	612	29.386	64.964	123.556	0.00	0.00		H
ATOM	9101	HCG	LEU	A	612	31.302	63.327	123.434	0.00	0.00		H
ATOM	9102	N	VAL	A	613	33.813	61.432	121.776	0.00	0.00		N
ATOM	9103	CA	VAL	A	613	33.867	60.007	122.047	0.00	0.00		C
ATOM	9104	C	VAL	A	613	35.012	59.647	122.947	0.00	0.00		C
ATOM	9105	O	VAL	A	613	34.798	59.033	124.021	0.00	0.00		O
ATOM	9106	CB	VAL	A	613	33.878	59.212	120.691	0.00	0.00		C
ATOM	9107	CG1	VAL	A	613	34.214	57.699	120.848	0.00	0.00		C
ATOM	9108	CG2	VAL	A	613	32.521	59.334	119.934	0.00	0.00		C
ATOM	9109	HN	VAL	A	613	33.736	61.719	120.861	0.00	0.00		H
ATOM	9110	HCA	VAL	A	613	32.946	59.740	122.575	0.00	0.00		H
ATOM	9111	HCB	VAL	A	613	34.653	59.649	120.053	0.00	0.00		H
ATOM	9112	HCG1	VAL	A	613	33.523	57.224	121.548	0.00	0.00		H
ATOM	9113	HCG1	VAL	A	613	34.142	57.185	119.887	0.00	0.00		H
ATOM	9114	HCG1	VAL	A	613	35.232	57.565	121.216	0.00	0.00		H
ATOM	9115	HCG2	VAL	A	613	31.745	58.751	120.434	0.00	0.00		H
ATOM	9116	HCG2	VAL	A	613	32.184	60.368	119.880	0.00	0.00		H
ATOM	9117	HCG2	VAL	A	613	32.622	58.961	118.912	0.00	0.00		H
ATOM	9118	N	GLN	A	614	36.272	60.040	122.652	0.00	0.00		N

ATOM	9119	CA	GLN	A	614	37.452	59.775	123.439	0.00	0.00		C
ATOM	9120	C	GLN	A	614	37.498	60.452	124.740	0.00	0.00		C
ATOM	9121	O	GLN	A	614	38.380	60.126	125.526	0.00	0.00		O
ATOM	9122	CB	GLN	A	614	38.698	60.136	122.567	0.00	0.00		C
ATOM	9123	CG	GLN	A	614	38.996	59.123	121.421	0.00	0.00		C
ATOM	9124	CD	GLN	A	614	39.643	57.875	121.875	0.00	0.00		C
ATOM	9125	NE2	GLN	A	614	39.123	56.664	121.651	0.00	0.00		N
ATOM	9126	OE1	GLN	A	614	40.746	57.900	122.462	0.00	0.00		O
ATOM	9127	HN	GLN	A	614	36.378	60.594	121.865	0.00	0.00		H
ATOM	9128	HNE2	GLN	A	614	38.278	56.575	121.188	0.00	0.00		H
ATOM	9129	HNE2	GLN	A	614	39.631	55.891	121.934	0.00	0.00		H
ATOM	9130	HCA	GLN	A	614	37.483	58.702	123.647	0.00	0.00		H
ATOM	9131	HCB	GLN	A	614	38.546	61.127	122.129	0.00	0.00		H
ATOM	9132	HCB	GLN	A	614	39.593	60.214	123.193	0.00	0.00		H
ATOM	9133	HCG	GLN	A	614	38.076	58.894	120.879	0.00	0.00		H
ATOM	9134	HCG	GLN	A	614	39.681	59.594	120.712	0.00	0.00		H
ATOM	9135	N	LYS	A	615	36.609	61.359	125.105	0.00	0.00		N
ATOM	9136	CA	LYS	A	615	36.573	62.113	126.330	0.00	0.00		C
ATOM	9137	C	LYS	A	615	35.502	61.520	127.183	0.00	0.00		C
ATOM	9138	O	LYS	A	615	35.754	61.192	128.370	0.00	0.00		O
ATOM	9139	CB	LYS	A	615	36.369	63.600	125.910	0.00	0.00		C
ATOM	9140	CG	LYS	A	615	36.473	64.642	127.055	0.00	0.00		C
ATOM	9141	CD	LYS	A	615	36.534	66.127	126.582	0.00	0.00		C
ATOM	9142	CE	LYS	A	615	35.409	66.540	125.602	0.00	0.00		C
ATOM	9143	NZ	LYS	A	615	35.327	67.990	125.405	0.00	0.00		N
ATOM	9144	HN	LYS	A	615	35.865	61.540	124.525	0.00	0.00		H
ATOM	9145	HNZ	LYS	A	615	36.216	68.409	125.195	0.00	0.00		H
ATOM	9146	HNZ	LYS	A	615	34.735	68.166	124.611	0.00	0.00		H
ATOM	9147	HNZ	LYS	A	615	34.926	68.437	126.230	0.00	0.00		H
ATOM	9148	HCA	LYS	A	615	37.527	62.047	126.865	0.00	0.00		H
ATOM	9149	HCB	LYS	A	615	37.130	63.851	125.164	0.00	0.00		H
ATOM	9150	HCB	LYS	A	615	35.392	63.703	125.435	0.00	0.00		H
ATOM	9151	HCD	LYS	A	615	36.485	66.765	127.469	0.00	0.00		H
ATOM	9152	HCD	LYS	A	615	37.500	66.309	126.100	0.00	0.00		H
ATOM	9153	HCE	LYS	A	615	35.582	66.079	124.628	0.00	0.00		H
ATOM	9154	HCE	LYS	A	615	34.444	66.200	125.984	0.00	0.00		H
ATOM	9155	HCG	LYS	A	615	35.616	64.511	127.717	0.00	0.00		H
ATOM	9156	HCG	LYS	A	615	37.376	64.443	127.636	0.00	0.00		H
ATOM	9157	N	MET	A	616	34.306	61.205	126.627	0.00	0.00		N
ATOM	9158	CA	MET	A	616	33.258	60.412	127.210	0.00	0.00		C
ATOM	9159	C	MET	A	616	33.761	59.083	127.649	0.00	0.00		C
ATOM	9160	O	MET	A	616	33.496	58.684	128.806	0.00	0.00		O
ATOM	9161	CB	MET	A	616	32.090	60.217	126.198	0.00	0.00		C
ATOM	9162	CG	MET	A	616	31.309	61.507	125.836	0.00	0.00		C
ATOM	9163	SD	MET	A	616	30.492	62.366	127.201	0.00	0.00		S
ATOM	9164	CE	MET	A	616	29.325	61.089	127.703	0.00	0.00		C
ATOM	9165	HN	MET	A	616	34.181	61.498	125.727	0.00	0.00		H
ATOM	9166	HCA	MET	A	616	32.874	60.945	128.082	0.00	0.00		H
ATOM	9167	HCB	MET	A	616	32.490	59.797	125.272	0.00	0.00		H
ATOM	9168	HCB	MET	A	616	31.382	59.483	126.591	0.00	0.00		H
ATOM	9169	HCE	MET	A	616	28.780	60.698	126.846	0.00	0.00		H
ATOM	9170	HCE	MET	A	616	29.857	60.284	128.204	0.00	0.00		H
ATOM	9171	HCE	MET	A	616	28.619	61.533	128.400	0.00	0.00		H
ATOM	9172	HCG	MET	A	616	32.005	62.222	125.410	0.00	0.00		H
ATOM	9173	HCG	MET	A	616	30.562	61.279	125.074	0.00	0.00		H
ATOM	9174	N	LYS	A	617	34.533	58.320	126.836	0.00	0.00		N
ATOM	9175	CA	LYS	A	617	35.172	57.094	127.235	0.00	0.00		C
ATOM	9176	C	LYS	A	617	36.020	57.197	128.459	0.00	0.00		C
ATOM	9177	O	LYS	A	617	36.186	56.156	129.145	0.00	0.00		O
ATOM	9178	CB	LYS	A	617	36.054	56.546	126.069	0.00	0.00		C
ATOM	9179	CG	LYS	A	617	35.235	55.886	124.930	0.00	0.00		C
ATOM	9180	CD	LYS	A	617	36.060	55.523	123.668	0.00	0.00		C
ATOM	9181	CE	LYS	A	617	37.116	54.415	123.895	0.00	0.00		C
ATOM	9182	NZ	LYS	A	617	37.817	54.130	122.643	0.00	0.00		N
ATOM	9183	HN	LYS	A	617	34.645	58.606	125.927	0.00	0.00		H
ATOM	9184	HNZ	LYS	A	617	38.248	54.971	122.307	0.00	0.00		H
ATOM	9185	HNZ	LYS	A	617	38.533	53.421	122.806	0.00	0.00		H
ATOM	9186	HNZ	LYS	A	617	37.154	53.785	121.949	0.00	0.00		H
ATOM	9187	HCA	LYS	A	617	34.379	56.369	127.435	0.00	0.00		H
ATOM	9188	HCB	LYS	A	617	36.662	57.361	125.669	0.00	0.00		H
ATOM	9189	HCB	LYS	A	617	36.740	55.786	126.456	0.00	0.00		H
ATOM	9190	HCD	LYS	A	617	35.364	55.184	122.895	0.00	0.00		H
ATOM	9191	HCD	LYS	A	617	36.553	56.423	123.295	0.00	0.00		H
ATOM	9192	HCE	LYS	A	617	37.855	54.734	124.632	0.00	0.00		H
ATOM	9193	HCE	LYS	A	617	36.634	53.501	124.251	0.00	0.00		H
ATOM	9194	HCG	LYS	A	617	34.753	54.983	125.316	0.00	0.00		H
ATOM	9195	HCG	LYS	A	617	34.448	56.575	124.625	0.00	0.00		H
ATOM	9196	N	THR	A	618	36.635	58.346	128.828	0.00	0.00		N
ATOM	9197	CA	THR	A	618	37.805	58.409	129.668	0.00	0.00		C
ATOM	9198	C	THR	A	618	37.541	59.173	130.912	0.00	0.00		C

ATOM	9199	O	THR	A	618	37.902	58.696	132.014	0.00	0.00	O
ATOM	9200	CB	THR	A	618	38.968	59.044	128.842	0.00	0.00	C
ATOM	9201	CG2	THR	A	618	40.331	59.043	129.573	0.00	0.00	C
ATOM	9202	OG1	THR	A	618	39.165	58.315	127.628	0.00	0.00	O
ATOM	9203	HN	THR	A	618	36.308	59.188	128.491	0.00	0.00	H
ATOM	9204	HCA	THR	A	618	38.140	57.406	129.952	0.00	0.00	H
ATOM	9205	HCB	THR	A	618	38.714	60.075	128.579	0.00	0.00	H
ATOM	9206	HCG2	THR	A	618	40.620	58.024	129.839	0.00	0.00	H
ATOM	9207	HCG2	THR	A	618	41.102	59.464	128.924	0.00	0.00	H
ATOM	9208	HCG2	THR	A	618	40.283	59.645	130.481	0.00	0.00	H
ATOM	9209	HOG1	THR	A	618	38.896	58.919	126.917	0.00	0.00	H
ATOM	9210	N	THR	A	619	36.970	60.395	130.841	0.00	0.00	N
ATOM	9211	CA	THR	A	619	36.872	61.367	131.896	0.00	0.00	C
ATOM	9212	C	THR	A	619	35.491	61.906	132.029	0.00	0.00	C
ATOM	9213	O	THR	A	619	35.026	62.050	133.186	0.00	0.00	O
ATOM	9214	CB	THR	A	619	37.927	62.500	131.683	0.00	0.00	C
ATOM	9215	CG2	THR	A	619	38.051	63.046	130.242	0.00	0.00	C
ATOM	9216	OG1	THR	A	619	37.659	63.600	132.552	0.00	0.00	O
ATOM	9217	HN	THR	A	619	36.613	60.654	129.995	0.00	0.00	H
ATOM	9218	HCA	THR	A	619	37.121	60.903	132.857	0.00	0.00	H
ATOM	9219	HCB	THR	A	619	38.907	62.096	131.958	0.00	0.00	H
ATOM	9220	HCG2	THR	A	619	38.481	62.292	129.584	0.00	0.00	H
ATOM	9221	HCG2	THR	A	619	37.076	63.325	129.855	0.00	0.00	H
ATOM	9222	HCG2	THR	A	619	38.702	63.922	130.219	0.00	0.00	H
ATOM	9223	HOG1	THR	A	619	38.349	64.266	132.352	0.00	0.00	H
ATOM	9224	N	VAL	A	620	34.736	62.241	130.952	0.00	0.00	N
ATOM	9225	CA	VAL	A	620	33.458	62.921	131.031	0.00	0.00	C
ATOM	9226	C	VAL	A	620	32.333	61.941	131.049	0.00	0.00	C
ATOM	9227	O	VAL	A	620	32.481	60.763	130.650	0.00	0.00	O
ATOM	9228	CB	VAL	A	620	33.363	64.050	129.944	0.00	0.00	C
ATOM	9229	CG1	VAL	A	620	31.957	64.703	129.799	0.00	0.00	C
ATOM	9230	CG2	VAL	A	620	34.376	65.197	130.242	0.00	0.00	C
ATOM	9231	HN	VAL	A	620	35.062	61.969	130.089	0.00	0.00	H
ATOM	9232	HCA	VAL	A	620	33.398	63.438	131.995	0.00	0.00	H
ATOM	9233	HCB	VAL	A	620	33.616	63.605	128.976	0.00	0.00	H
ATOM	9234	HCG1	VAL	A	620	31.214	63.968	129.500	0.00	0.00	H
ATOM	9235	HCG1	VAL	A	620	31.641	65.157	130.741	0.00	0.00	H
ATOM	9236	HCG1	VAL	A	620	31.970	65.479	129.030	0.00	0.00	H
ATOM	9237	HCG2	VAL	A	620	34.121	65.706	131.174	0.00	0.00	H
ATOM	9238	HCG2	VAL	A	620	35.388	64.813	130.339	0.00	0.00	H
ATOM	9239	HCG2	VAL	A	620						

ATOM	9279	HCA	ARG	A	622	26.777	63.636	130.306	0.00	0.00	H
ATOM	9280	HC	ARG	A	622	27.656	65.287	132.697	0.00	0.00	H
ATOM	9281	HC	ARG	A	622	26.529	66.003	131.574	0.00	0.00	H
ATOM	9282	HCD	ARG	A	622	25.549	62.452	131.804	0.00	0.00	H
ATOM	9283	HCD	ARG	A	622	26.430	62.482	133.351	0.00	0.00	H
ATOM	9284	HCG	ARG	A	622	25.679	64.792	133.726	0.00	0.00	H
ATOM	9285	HCG	ARG	A	622	24.744	64.770	132.245	0.00	0.00	H
ATOM	9286	N	GLY	A	623	27.870	64.865	128.415	0.00	0.00	N
ATOM	9287	CA	GLY	A	623	28.396	65.584	127.286	0.00	0.00	C
ATOM	9288	C	GLY	A	623	27.436	66.585	126.786	0.00	0.00	C
ATOM	9289	O	GLY	A	623	26.292	66.201	126.469	0.00	0.00	O
ATOM	9290	HN	GLY	A	623	27.284	64.124	128.247	0.00	0.00	H
ATOM	9291	HCA	GLY	A	623	29.350	66.061	127.527	0.00	0.00	H
ATOM	9292	HCA	GLY	A	623	28.587	64.868	126.486	0.00	0.00	H
ATOM	9293	N	LEU	A	624	27.760	67.890	126.671	0.00	0.00	N
ATOM	9294	CA	LEU	A	624	26.851	68.958	126.340	0.00	0.00	C
ATOM	9295	C	LEU	A	624	27.167	69.533	125.001	0.00	0.00	C
ATOM	9296	O	LEU	A	624	28.294	70.049	124.805	0.00	0.00	O
ATOM	9297	CB	LEU	A	624	26.933	69.974	127.518	0.00	0.00	C
ATOM	9298	CG	LEU	A	624	26.105	71.286	127.356	0.00	0.00	C
ATOM	9299	CD1	LEU	A	624	24.580	71.020	127.345	0.00	0.00	C
ATOM	9300	CD2	LEU	A	624	26.451	72.292	128.484	0.00	0.00	C
ATOM	9301	HN	LEU	A	624	28.679	68.133	126.860	0.00	0.00	H
ATOM	9302	HCA	LEU	A	624	25.821	68.590	126.312	0.00	0.00	H
ATOM	9303	HC	LEU	A	624	26.604	69.469	128.432	0.00	0.00	H
ATOM	9304	HC	LEU	A	624	27.982	70.235	127.671	0.00	0.00	H
ATOM	9305	HCD1	LEU	A	624	24.288	70.447	126.464	0.00	0.00	H
ATOM	9306	HCD1	LEU	A	624	24.282	70.474	128.240	0.00	0.00	H
ATOM	9307	HCD1	LEU	A	624	24.038	71.965	127.327	0.00	0.00	H
ATOM	9308	HCD2	LEU	A	624	26.174	71.894	129.462	0.00	0.00	H
ATOM	9309	HCD2	LEU	A	624	27.518	72.515	128.490	0.00	0.00	H
ATOM	9310	HCD2	LEU	A	624	25.915	73.228	128.326	0.00	0.00	H
ATOM	9311	HCG	LEU	A	624	26.369	71.760	126.406	0.00	0.00	H
ATOM	9312	N	VAL	A	625	26.255	69.474	123.998	0.00	0.00	N
ATOM	9313	CA	VAL	A	625	26.400	70.019	122.666	0.00	0.00	C
ATOM	9314	C	VAL	A	625	25.286	70.974	122.379	0.00	0.00	C
ATOM	9315	O	VAL	A	625	24.108	70.636	122.648	0.00	0.00	O
ATOM	9316	CB	VAL	A	625	26.436	68.826	121.651	0.00	0.00	C
ATOM	9317	CG1	VAL	A	625	26.452	69.287	120.166	0.00	0.00	C
ATOM	9318	CG2	VAL	A	625	27.636	67.866	121.895	0.00	0.00	C
ATOM	9319	HN	VAL	A	625	25.448	68.977	124.169	0.00	0.00	H
ATOM	9320	HCA	VAL	A	625	27.342	70.567	122.567	0.00	0.00	H
ATOM	9321	HC	VAL	A	625	25.527	68.245	121.810	0.00	0.00	H
ATOM	9322	HCG1	VAL	A	625	25.544	69.839	119.917	0.00	0.00	H
ATOM	9323	HCG1	VAL	A	625	27.314	69.931	119.983	0.00	0.00	H
ATOM	9324	HCG1	VAL	A	625	26.506	68.425	119.497	0.00	0.00	H
ATOM	9325	HCG2	VAL	A	625	27.610	67.458	122.906	0.00	0.00	H
ATOM	9326	HCG2	VAL	A	625	27.601	67.023	121.201	0.00	0.00	H
ATOM	9327	HCG2	VAL	A	625	28.584	68.390	121.755	0.00	0.00	H
ATOM	9328	N	LEU	A	626	25.512	72.172	121.779	0.00	0.00	N
ATOM	9329	CA	LEU	A	626	24.503	73.156	121.458	0.00	0.00	C
ATOM	9330	C	LEU	A	626	24.383	73.384	119.986	0.00	0.00	C
ATOM	9331	O	LEU	A	626	25.408	73.441	119.267	0.00	0.00	O
ATOM	9332	CB	LEU	A	626	24.758	74.513	122.180	0.00	0.00	C
ATOM	9333	CG	LEU	A	626	25.005	74.481	123.722	0.00	0.00	C
ATOM	9334	CD1	LEU	A	626	25.116	75.932	124.252	0.00	0.00	C
ATOM	9335	CD2	LEU	A	626	23.911	73.748	124.533	0.00	0.00	C
ATOM	9336	HN	LEU	A	626	26.417	72.361	121.526	0.00	0.00	H
ATOM	9337	HCA	LEU	A	626	23.526	72.817	121.805	0.00	0.00	H
ATOM	9338	HC	LEU	A	626	25.624	74.994	121.725	0.00	0.00	H
ATOM	9339	HC	LEU	A	626	23.896	75.160	121.984	0.00	0.00	H
ATOM	9340	HCD1	LEU	A	626	24.192	76.488	124.073	0.00	0.00	H
ATOM	9341	HCD1	LEU	A	626	25.313	75.937	125.325	0.00	0.00	H
ATOM	9342	HCD1	LEU	A	626	25.932	76.443	123.744	0.00	0.00	H
ATOM	9343	HCD2	LEU	A	626	22.936	74.196	124.337	0.00	0.00	H
ATOM	9344	HCD2	LEU	A	626	23.888	72.691	124.278	0.00	0.00	H
ATOM	9345	HCD2	LEU	A	626	24.118	73.818	125.603	0.00	0.00	H
ATOM	9346	HCG	LEU	A	626	25.958	73.976	123.910	0.00	0.00	H
ATOM	9347	N	ARG	A	627	23.168	73.575	119.419	0.00	0.00	N
ATOM	9348	CA	ARG	A	627	22.913	73.974	118.056	0.00	0.00	C
ATOM	9349	C	ARG	A	627	22.084	75.215	117.994	0.00	0.00	C
ATOM	9350	O	ARG	A	627	20.984	75.235	118.588	0.00	0.00	O
ATOM	9351	CB	ARG	A	627	22.255	72.768	117.309	0.00	0.00	C
ATOM	9352	CG	ARG	A	627	22.156	72.977	115.770	0.00	0.00	C
ATOM	9353	CD	ARG	A	627	21.404	71.867	114.989	0.00	0.00	C
ATOM	9354	NE	ARG	A	627	21.075	72.268	113.644	0.00	0.00	N
ATOM	9355	CZ	ARG	A	627	20.093	73.134	113.356	0.00	0.00	C
ATOM	9356	NH1	ARG	A	627	19.068	73.358	114.164	0.00	0.00	N
ATOM	9357	NH2	ARG	A	627	19.993	73.844	112.237	0.00	0.00	N
ATOM	9358	HN	ARG	A	627	22.418	73.407	119.992	0.00	0.00	H

ATOM	9359	HNE	ARG	A	627	21.623	71.934	112.930	0.00	0.00		H
ATOM	9360	HNH1	ARG	A	627	18.834	72.722	114.846	0.00	0.00		H
ATOM	9361	HNH1	ARG	A	627	18.526	74.122	113.965	0.00	0.00		H
ATOM	9362	HNH2	ARG	A	627	20.512	73.708	111.441	0.00	0.00		H
ATOM	9363	HNH2	ARG	A	627	19.322	74.528	112.278	0.00	0.00		H
ATOM	9364	HCA	ARG	A	627	23.851	74.200	117.548	0.00	0.00		H
ATOM	9365	HCB	ARG	A	627	22.851	71.868	117.491	0.00	0.00		H
ATOM	9366	HCB	ARG	A	627	21.257	72.591	117.721	0.00	0.00		H
ATOM	9367	HCD	ARG	A	627	22.023	70.975	114.944	0.00	0.00		H
ATOM	9368	HCD	ARG	A	627	20.512	71.605	115.547	0.00	0.00		H
ATOM	9369	HCG	ARG	A	627	21.644	73.923	115.592	0.00	0.00		H
ATOM	9370	HCG	ARG	A	627	23.168	73.049	115.369	0.00	0.00		H
ATOM	9371	N	ASN	A	628	22.443	76.299	117.257	0.00	0.00		N
ATOM	9372	CA	ASN	A	628	21.544	77.377	116.904	0.00	0.00		C
ATOM	9373	C	ASN	A	628	20.538	76.883	115.915	0.00	0.00		C
ATOM	9374	O	ASN	A	628	20.933	76.381	114.835	0.00	0.00		O
ATOM	9375	CB	ASN	A	628	22.357	78.616	116.394	0.00	0.00		C
ATOM	9376	CG	ASN	A	628	21.672	79.692	115.630	0.00	0.00		C
ATOM	9377	ND2	ASN	A	628	20.387	79.654	115.261	0.00	0.00		N
ATOM	9378	OD1	ASN	A	628	22.324	80.686	115.253	0.00	0.00		O
ATOM	9379	HN	ASN	A	628	23.331	76.317	116.891	0.00	0.00		H
ATOM	9380	HND2	ASN	A	628	19.873	78.905	115.530	0.00	0.00		H
ATOM	9381	HND2	ASN	A	628	20.007	80.356	114.733	0.00	0.00		H
ATOM	9382	HCA	ASN	A	628	21.017	77.706	117.807	0.00	0.00		H
ATOM	9383	HCB	ASN	A	628	22.827	79.088	117.260	0.00	0.00		H
ATOM	9384	HCB	ASN	A	628	23.160	78.266	115.757	0.00	0.00		H
ATOM	9385	N	GLU	A	629	19.215	77.083	116.145	0.00	0.00		N
ATOM	9386	CA	GLU	A	629	18.106	76.827	115.260	0.00	0.00		C
ATOM	9387	C	GLU	A	629	18.374	76.833	113.786	0.00	0.00		C
ATOM	9388	O	GLU	A	629	18.012	75.843	113.099	0.00	0.00		O
ATOM	9389	CB	GLU	A	629	16.896	77.739	115.646	0.00	0.00		C
ATOM	9390	CG	GLU	A	629	17.170	79.275	115.675	0.00	0.00		C
ATOM	9391	CD	GLU	A	629	15.963	80.116	115.799	0.00	0.00		C
ATOM	9392	OE1	GLU	A	629	14.978	79.964	115.045	0.00	0.00		O
ATOM	9393	OE2	GLU	A	629	15.913	81.066	116.610	0.00	0.00		O
ATOM	9394	HN	GLU	A	629	18.977	77.372	117.029	0.00	0.00		H
ATOM	9395	HCA	GLU	A	629	17.792	75.812	115.509	0.00	0.00		H
ATOM	9396	HCB	GLU	A	629	16.075	77.531	114.952	0.00	0.00		H
ATOM	9397	HCB	GLU	A	629	16.543	77.446	116.640	0.00	0.00		H
ATOM	9398	HCG	GLU	A	629	17.846	79.499	116.500	0.00	0.00		H
ATOM	9399	HCG	GLU	A	629	17.669	79.585	114.766	0.00	0.00		H
ATOM	9400	N	LYS	A	630	19.042	77.861	113.202	0.00	0.00		N
ATOM	9401	CA	LYS	A	630	19.284	78.012	111.786	0.00	0.00		C
ATOM	9402	C	LYS	A	630	20.743	78.054	111.462	0.00	0.00		C
ATOM	9403	O	LYS	A	630	21.111	78.592	110.390	0.00	0.00		O
ATOM	9404	CB	LYS	A	630	18.502	79.246	111.231	0.00	0.00		C
ATOM	9405	CG	LYS	A	630	16.994	79.312	111.608	0.00	0.00		C
ATOM	9406	CD	LYS	A	630	16.246	80.492	110.925	0.00	0.00		C
ATOM	9407	CE	LYS	A	630	14.977	81.007	111.657	0.00	0.00		C
ATOM	9408	NZ	LYS	A	630	14.172	79.954	112.282	0.00	0.00		N
ATOM	9409	HN	LYS	A	630	19.397	78.529	113.793	0.00	0.00		H
ATOM	9410	HNZ	LYS	A	630	14.451	79.888	113.247	0.00	0.00		H
ATOM	9411	HNZ	LYS	A	630	13.184	80.206	112.251	0.00	0.00		H
ATOM	9412	HNZ	LYS	A	630	14.316	79.061	111.813	0.00	0.00		H
ATOM	9413	HCA	LYS	A	630	18.905	77.146	111.235	0.00	0.00		H
ATOM	9414	HCB	LYS	A	630	18.994	80.158	111.574	0.00	0.00		H
ATOM	9415	HCB	LYS	A	630	18.570	79.233	110.139	0.00	0.00		H
ATOM	9416	HCD	LYS	A	630	16.924	81.345	110.839	0.00	0.00		H
ATOM	9417	HCD	LYS	A	630	15.976	80.190	109.910	0.00	0.00		H
ATOM	9418	HCE	LYS	A	630	15.267	81.706	112.445	0.00	0.00		H
ATOM	9419	HCE	LYS	A	630	14.352	81.552	110.946	0.00	0.00		H
ATOM	9420	HCG	LYS	A	630	16.511	78.370	111.333	0.00	0.00		H
ATOM	9421	HCG	LYS	A	630	16.908	79.426	112.684	0.00	0.00		H
ATOM	9422	N	CYS	A	631	21.679	77.454	112.244	0.00	0.00		N
ATOM	9423	CA	CYS	A	631	23.088	77.359	111.935	0.00	0.00		C
ATOM	9424	C	CYS	A	631	23.385	76.796	110.591	0.00	0.00		C
ATOM	9425	O	CYS	A	631	24.200	77.367	109.830	0.00	0.00		O
ATOM	9426	CB	CYS	A	631	23.838	76.528	113.008	0.00	0.00		C
ATOM	9427	SG	CYS	A	631	23.279	74.827	113.186	0.00	0.00		S
ATOM	9428	HN	CYS	A	631	21.391	77.085	113.080	0.00	0.00		H
ATOM	9429	HCA	CYS	A	631	23.497	78.372	111.978	0.00	0.00		H
ATOM	9430	HCB	CYS	A	631	24.897	76.483	112.768	0.00	0.00		H
ATOM	9431	HCB	CYS	A	631	23.738	77.009	113.974	0.00	0.00		H
ATOM	9432	HSG	CYS	A	631	22.184	75.260	113.841	0.00	0.00		H
ATOM	9433	N	ASN	A	632	22.800	75.636	110.225	0.00	0.00		N
ATOM	9434	CA	ASN	A	632	23.015	74.929	109.004	0.00	0.00		C
ATOM	9435	C	ASN	A	632	21.759	74.226	108.630	0.00	0.00		C
ATOM	9436	O	ASN	A	632	21.115	73.583	109.500	0.00	0.00		O
ATOM	9437	CB	ASN	A	632	24.225	73.970	109.176	0.00	0.00		C
ATOM	9438	CG	ASN	A	632	24.666	73.391	107.896	0.00	0.00		C

ATOM	9439	ND2	ASN	A	632	25.847	73.691	107.346	0.00	0.00	N
ATOM	9440	OD1	ASN	A	632	23.932	72.598	107.270	0.00	0.00	O
ATOM	9441	HN	ASN	A	632	22.213	75.230	110.878	0.00	0.00	H
ATOM	9442	HND2	ASN	A	632	26.456	74.296	107.793	0.00	0.00	H
ATOM	9443	HND2	ASN	A	632	26.092	73.286	106.502	0.00	0.00	H
ATOM	9444	HCA	ASN	A	632	23.262	75.651	108.216	0.00	0.00	H
ATOM	9445	HCN	ASN	A	632	25.059	74.525	109.614	0.00	0.00	H
ATOM	9446	HCN	ASN	A	632	23.968	73.167	109.868	0.00	0.00	H
ATOM	9447	N	GLU	A	633	21.358	74.313	107.341	0.00	0.00	N
ATOM	9448	CA	GLU	A	633	20.158	73.794	106.754	0.00	0.00	C
ATOM	9449	C	GLU	A	633	20.183	72.321	106.518	0.00	0.00	C
ATOM	9450	O	GLU	A	633	19.100	71.746	106.257	0.00	0.00	O
ATOM	9451	CB	GLU	A	633	19.939	74.540	105.400	0.00	0.00	C
ATOM	9452	CG	GLU	A	633	19.822	76.089	105.519	0.00	0.00	C
ATOM	9453	CD	GLU	A	633	19.706	76.760	104.213	0.00	0.00	C
ATOM	9454	OE1	GLU	A	633	20.630	76.702	103.374	0.00	0.00	O
ATOM	9455	OE2	GLU	A	633	18.694	77.424	103.904	0.00	0.00	O
ATOM	9456	HN	GLU	A	633	21.956	74.787	106.744	0.00	0.00	H
ATOM	9457	HCA	GLU	A	633	19.318	74.019	107.420	0.00	0.00	H
ATOM	9458	HCN	GLU	A	633	20.769	74.297	104.727	0.00	0.00	H
ATOM	9459	HCN	GLU	A	633	19.020	74.169	104.933	0.00	0.00	H
ATOM	9460	HCG	GLU	A	633	18.951	76.336	106.131	0.00	0.00	H
ATOM	9461	HCG	GLU	A	633	20.703	76.503	106.013	0.00	0.00	H
ATOM	9462	N	ASN	A	634	21.335	71.611	106.546	0.00	0.00	N
ATOM	9463	CA	ASN	A	634	21.504	70.208	106.281	0.00	0.00	C
ATOM	9464	C	ASN	A	634	21.937	69.535	107.534	0.00	0.00	C
ATOM	9465	O	ASN	A	634	21.360	68.475	107.887	0.00	0.00	O
ATOM	9466	CB	ASN	A	634	22.557	70.020	105.152	0.00	0.00	C
ATOM	9467	CG	ASN	A	634	22.147	70.645	103.882	0.00	0.00	C
ATOM	9468	ND2	ASN	A	634	22.836	71.652	103.337	0.00	0.00	N
ATOM	9469	OD1	ASN	A	634	21.134	70.250	103.266	0.00	0.00	O
ATOM	9470	HN	ASN	A	634	22.144	72.066	106.774	0.00	0.00	H
ATOM	9471	HND2	ASN	A	634	23.627	71.995	103.778	0.00	0.00	H
ATOM	9472	HND2	ASN	A	634	22.537	72.033	102.500	0.00	0.00	H
ATOM	9473	HCA	ASN	A	634	20.566	69.747	105.950	0.00	0.00	H
ATOM	9474	HCN	ASN	A	634	23.518	70.432	105.470	0.00	0.00	H
ATOM	9475	HCN	ASN	A	634	22.704	68.953	104.964	0.00	0.00	H
ATOM	9476	N	TYR	A	635	22.897	70.102	108.312	0.00	0.00	N
ATOM	9477	CA	TYR	A	635	23.297	69.635	109.614	0.00	0.00	C
ATOM	9478	C	TYR	A	635	22.310	70.117	110.635	0.00	0.00	C
ATOM	9479	O	TYR	A	635	22.592	70.929	111.553	0.00	0.00	O
ATOM	9480	CB	TYR	A	635	24.792	69.959	109.919	0.00	0.00	C
ATOM	9481	CG	TYR	A	635	25.771	69.713	108.817	0.00	0.00	C
ATOM	9482	CD1	TYR	A	635	25.823	68.481	108.121	0.00	0.00	C
ATOM	9483	CD2	TYR	A	635	26.703	70.714	108.458	0.00	0.00	C
ATOM	9484	CE1	TYR	A	635	26.774	68.259	107.104	0.00	0.00	C
ATOM	9485	CE2	TYR	A	635	27.634	70.504	107.426	0.00	0.00	C
ATOM	9486	CZ	TYR	A	635	27.691	69.271	106.758	0.00	0.00	C
ATOM	9487	OH	TYR	A	635	28.632	69.075	105.801	0.00	0.00	O
ATOM	9488	HN	TYR	A	635	23.282	70.916	107.987	0.00	0.00	H
ATOM	9489	HCA	TYR	A	635	23.239	68.544	109.624	0.00	0.00	H
ATOM	9490	HCN	TYR	A	635	24.859	70.995	110.250	0.00	0.00	H
ATOM	9491	HCN	TYR	A	635	25.104	69.342	110.764	0.00	0.00	H
ATOM	9492	HCD1	TYR	A	635	25.166	67.735	108.349	0.00	0.00	H
ATOM	9493	HCD2	TYR	A	635	26.718	71.609	108.950	0.00	0.00	H
ATOM	9494	HCE1	TYR	A	635	26.798	67.360	106.617	0.00	0.00	H
ATOM	9495	HCE2	TYR	A	635	28.267	71.255	107.162	0.00	0.00	H
ATOM	9496	HOH	TYR	A	635	28.637	68.237	105.288	0.00	0.00	H
ATOM	9497	N	THR	A	636	21.054	69.637	110.503	0.00	0.00	N
ATOM	9498	CA	THR	A	636	19.929	69.828	111.380	0.00	0.00	C
ATOM	9499	C	THR	A	636	20.131	69.249	112.733	0.00	0.00	C
ATOM	9500	O	THR	A	636	21.035	68.408	112.942	0.00	0.00	O
ATOM	9501	CB	THR	A	636	18.632	69.194	110.783	0.00	0.00	C
ATOM	9502	CG2	THR	A	636	18.250	69.737	109.388	0.00	0.00	C
ATOM	9503	OG1	THR	A	636	18.762	67.771	110.713	0.00	0.00	O
ATOM	9504	HN	THR	A	636	20.948	69.119	109.705	0.00	0.00	H
ATOM	9505	HCA	THR	A	636	19.768	70.903	111.483	0.00	0.00	H
ATOM	9506	HCN	THR	A	636	17.790	69.414	111.450	0.00	0.00	H
ATOM	9507	HCG2	THR	A	636	18.992	69.453	108.643	0.00	0.00	H
ATOM	9508	HCG2	THR	A	636	17.284	69.330	109.082	0.00	0.00	H
ATOM	9509	HCG2	THR	A	636	18.173	70.825	109.412	0.00	0.00	H
ATOM	9510	HOG1	THR	A	636	17.890	67.464	110.378	0.00	0.00	H
ATOM	9511	N	THR	A	637	19.276	69.570	113.730	0.00	0.00	N
ATOM	9512	CA	THR	A	637	19.238	68.969	115.038	0.00	0.00	C
ATOM	9513	C	THR	A	637	19.127	67.490	114.931	0.00	0.00	C
ATOM	9514	O	THR	A	637	19.959	66.764	115.521	0.00	0.00	O
ATOM	9515	CB	THR	A	637	18.073	69.609	115.850	0.00	0.00	C
ATOM	9516	CG2	THR	A	637	18.084	69.211	117.343	0.00	0.00	C
ATOM	9517	OG1	THR	A	637	18.171	71.036	115.769	0.00	0.00	O
ATOM	9518	HN	THR	A	637	18.620	70.259	113.544	0.00	0.00	H



ATOM	9519	HCA	THR	A	637	20.175	69.207	115.550	0.00	0.00		H
ATOM	9520	HCB	THR	A	637	17.115	69.312	115.408	0.00	0.00		H
ATOM	9521	HCG2	THR	A	637	18.075	68.128	117.455	0.00	0.00		H
ATOM	9522	HCG2	THR	A	637	18.977	69.602	117.835	0.00	0.00		H
ATOM	9523	HCG2	THR	A	637	17.201	69.613	117.843	0.00	0.00		H
ATOM	9524	HOG1	THR	A	637	17.340	71.376	116.139	0.00	0.00		H
ATOM	9525	N	ASP	A	638	18.191	66.944	114.123	0.00	0.00		N
ATOM	9526	CA	ASP	A	638	18.027	65.574	113.751	0.00	0.00		C
ATOM	9527	C	ASP	A	638	19.278	64.967	113.206	0.00	0.00		C
ATOM	9528	O	ASP	A	638	19.707	63.912	113.727	0.00	0.00		O
ATOM	9529	CB	ASP	A	638	16.853	65.462	112.724	0.00	0.00		C
ATOM	9530	CG	ASP	A	638	15.669	66.295	113.024	0.00	0.00		C
ATOM	9531	OD1	ASP	A	638	15.712	67.541	112.887	0.00	0.00		O
ATOM	9532	OD2	ASP	A	638	14.598	65.781	113.409	0.00	0.00		O
ATOM	9533	HN	ASP	A	638	17.511	67.507	113.747	0.00	0.00		H
ATOM	9534	HCA	ASP	A	638	17.727	65.030	114.653	0.00	0.00		H
ATOM	9535	HCB	ASP	A	638	17.191	65.744	111.725	0.00	0.00		H
ATOM	9536	HCB	ASP	A	638	16.542	64.415	112.672	0.00	0.00		H
ATOM	9537	N	PHE	A	639	19.964	65.534	112.180	0.00	0.00		N
ATOM	9538	CA	PHE	A	639	21.221	65.055	111.652	0.00	0.00		C
ATOM	9539	C	PHE	A	639	22.290	64.953	112.691	0.00	0.00		C
ATOM	9540	O	PHE	A	639	22.902	63.865	112.841	0.00	0.00		O
ATOM	9541	CB	PHE	A	639	21.642	65.976	110.468	0.00	0.00		C
ATOM	9542	CG	PHE	A	639	22.801	65.469	109.678	0.00	0.00		C
ATOM	9543	CD1	PHE	A	639	24.124	65.591	110.166	0.00	0.00		C
ATOM	9544	CD2	PHE	A	639	22.602	64.859	108.416	0.00	0.00		C
ATOM	9545	CE1	PHE	A	639	25.214	65.094	109.427	0.00	0.00		C
ATOM	9546	CE2	PHE	A	639	23.692	64.374	107.670	0.00	0.00		C
ATOM	9547	CZ	PHE	A	639	24.999	64.488	108.177	0.00	0.00		C
ATOM	9548	HN	PHE	A	639	19.573	66.303	111.757	0.00	0.00		H
ATOM	9549	HCA	PHE	A	639	21.038	64.057	111.239	0.00	0.00		H
ATOM	9550	HCB	PHE	A	639	20.781	66.099	109.805	0.00	0.00		H
ATOM	9551	HCB	PHE	A	639	21.877	66.970	110.848	0.00	0.00		H
ATOM	9552	HCD1	PHE	A	639	24.306	66.045	111.064	0.00	0.00		H
ATOM	9553	HCD2	PHE	A	639	21.659	64.761	108.032	0.00	0.00		H
ATOM	9554	HCE1	PHE	A	639	26.163	65.179	109.793	0.00	0.00		H
ATOM	9555	HCE2	PHE	A	639	23.535	63.937	106.759	0.00	0.00		H
ATOM	9556	HCZ	PHE	A	639	25.791	64.133	107.637	0.00	0.00		H
ATOM	9557	N	ILE	A	640	22.581	66.025	113.474	0.00	0.00		N
ATOM	9558	CA	ILE	A	640	23.547	66.058	114.548	0.00	0.00		C
ATOM	9559	C	ILE	A	640	23.255	64.951	115.509	0.00	0.00		C
ATOM	9560	O	ILE	A	640	24.142	64.091	115.741	0.00	0.00		O
ATOM	9561	CB	ILE	A	640	23.573	67.484	115.217	0.00	0.00		C
ATOM	9562	CG1	ILE	A	640	24.012	68.642	114.256	0.00	0.00		C
ATOM	9563	CG2	ILE	A	640	24.411	67.553	116.526	0.00	0.00		C
ATOM	9564	CD1	ILE	A	640	25.492	68.692	113.828	0.00	0.00		C
ATOM	9565	HN	ILE	A	640	22.075	66.821	113.305	0.00	0.00		H
ATOM	9566	HCA	ILE	A	640	24.535	65.875	114.116	0.00	0.00		H
ATOM	9567	HCB	ILE	A	640	22.542	67.708	115.513	0.00	0.00		H
ATOM	9568	HCD1	ILE	A	640	26.141	68.843	114.690	0.00	0.00		H
ATOM	9569	HCD1	ILE	A	640	25.765	67.771	113.320	0.00	0.00		H
ATOM	9570	HCD1	ILE	A	640	25.649	69.528	113.147	0.00	0.00		H
ATOM	9571	HCG1	ILE	A	640	23.422	68.611	113.343	0.00	0.00		H
ATOM	9572	HCG1	ILE	A	640	23.799	69.594	114.744	0.00	0.00		H
ATOM	9573	HCG2	ILE	A	640	24.040	66.851	117.268	0.00	0.00		H
ATOM	9574	HCG2	ILE	A	640	25.450	67.311	116.324	0.00	0.00		H
ATOM	9575	HCG2	ILE	A	640	24.367	68.553	116.964	0.00	0.00		H
ATOM	9576	N	PHE	A	641	22.017	64.826	116.051	0.00	0.00		N
ATOM	9577	CA	PHE	A	641	21.563	63.762	116.902	0.00	0.00		C
ATOM	9578	C	PHE	A	641	21.848	62.417	116.340	0.00	0.00		C
ATOM	9579	O	PHE	A	641	22.602	61.653	116.983	0.00	0.00		O
ATOM	9580	CB	PHE	A	641	20.058	63.989	117.236	0.00	0.00		C
ATOM	9581	CG	PHE	A	641	19.422	62.907	118.041	0.00	0.00		C
ATOM	9582	CD1	PHE	A	641	19.893	62.603	119.339	0.00	0.00		C
ATOM	9583	CD2	PHE	A	641	18.331	62.164	117.530	0.00	0.00		C
ATOM	9584	CE1	PHE	A	641	19.311	61.569	120.091	0.00	0.00		C
ATOM	9585	CE2	PHE	A	641	17.737	61.139	118.290	0.00	0.00		C
ATOM	9586	CZ	PHE	A	641	18.230	60.839	119.572	0.00	0.00		C
ATOM	9587	HN	PHE	A	641	21.372	65.500	115.840	0.00	0.00		H
ATOM	9588	HCA	PHE	A	641	22.110	63.846	117.837	0.00	0.00		H
ATOM	9589	HCB	PHE	A	641	19.964	64.926	117.790	0.00	0.00		H
ATOM	9590	HCB	PHE	A	641	19.512	64.126	116.303	0.00	0.00		H
ATOM	9591	HCD1	PHE	A	641	20.665	63.130	119.746	0.00	0.00		H
ATOM	9592	HCD2	PHE	A	641	17.957	62.367	116.602	0.00	0.00		H
ATOM	9593	HCE1	PHE	A	641	19.679	61.346	121.015	0.00	0.00		H
ATOM	9594	HCE2	PHE	A	641	16.948	60.611	117.911	0.00	0.00		H
ATOM	9595	HCZ	PHE	A	641	17.805	60.091	120.125	0.00	0.00		H
ATOM	9596	N	ASN	A	642	21.363	62.041	115.135	0.00	0.00		N
ATOM	9597	CA	ASN	A	642	21.603	60.775	114.496	0.00	0.00		C
ATOM	9598	C	ASN	A	642	23.055	60.449	114.399	0.00	0.00		C

ATOM	9599	O	ASN	A	642	23.452	59.340	114.833	0.00	0.00	O
ATOM	9600	CB	ASN	A	642	20.929	60.747	113.091	0.00	0.00	C
ATOM	9601	CG	ASN	A	642	19.453	60.815	113.068	0.00	0.00	C
ATOM	9602	ND2	ASN	A	642	18.701	60.971	114.162	0.00	0.00	N
ATOM	9603	OD1	ASN	A	642	18.844	60.721	111.982	0.00	0.00	O
ATOM	9604	HN	ASN	A	642	20.818	62.676	114.673	0.00	0.00	H
ATOM	9605	HND2	ASN	A	642	19.134	61.082	115.018	0.00	0.00	H
ATOM	9606	HND2	ASN	A	642	17.737	60.991	114.086	0.00	0.00	H
ATOM	9607	HCA	ASN	A	642	21.128	60.001	115.110	0.00	0.00	H
ATOM	9608	HCB	ASN	A	642	21.312	61.572	112.487	0.00	0.00	H
ATOM	9609	HCB	ASN	A	642	21.205	59.814	112.593	0.00	0.00	H
ATOM	9610	N	LEU	A	643	23.944	61.335	113.886	0.00	0.00	N
ATOM	9611	CA	LEU	A	643	25.361	61.097	113.793	0.00	0.00	C
ATOM	9612	C	LEU	A	643	26.001	60.856	115.122	0.00	0.00	C
ATOM	9613	O	LEU	A	643	26.656	59.793	115.285	0.00	0.00	O
ATOM	9614	CB	LEU	A	643	26.035	62.270	113.027	0.00	0.00	C
ATOM	9615	CG	LEU	A	643	27.565	62.090	112.746	0.00	0.00	C
ATOM	9616	CD1	LEU	A	643	27.878	60.930	111.763	0.00	0.00	C
ATOM	9617	CD2	LEU	A	643	28.162	63.411	112.206	0.00	0.00	C
ATOM	9618	HN	LEU	A	643	23.601	62.175	113.565	0.00	0.00	H
ATOM	9619	HCA	LEU	A	643	25.479	60.198	113.181	0.00	0.00	H
ATOM	9620	HCB	LEU	A	643	25.519	62.412	112.072	0.00	0.00	H
ATOM	9621	HCB	LEU	A	643	25.881	63.183	113.611	0.00	0.00	H
ATOM	9622	HCD1	LEU	A	643	27.346	61.069	110.820	0.00	0.00	H
ATOM	9623	HCD1	LEU	A	643	28.949	60.884	111.555	0.00	0.00	H
ATOM	9624	HCD1	LEU	A	643	27.587	59.971	112.191	0.00	0.00	H
ATOM	9625	HCD2	LEU	A	643	27.711	63.680	111.250	0.00	0.00	H
ATOM	9626	HCD2	LEU	A	643	27.972	64.209	112.923	0.00	0.00	H
ATOM	9627	HCD2	LEU	A	643	29.242	63.321	112.073	0.00	0.00	H
ATOM	9628	HCG	LEU	A	643	28.077	61.877	113.690	0.00	0.00	H
ATOM	9629	N	TYR	A	644	25.865	61.747	116.140	0.00	0.00	N
ATOM	9630	CA	TYR	A	644	26.427	61.580	117.460	0.00	0.00	C
ATOM	9631	C	TYR	A	644	25.944	60.318	118.097	0.00	0.00	C
ATOM	9632	O	TYR	A	644	26.788	59.564	118.637	0.00	0.00	O
ATOM	9633	CB	TYR	A	644	26.129	62.817	118.365	0.00	0.00	C
ATOM	9634	CG	TYR	A	644	27.141	63.914	118.301	0.00	0.00	C
ATOM	9635	CD1	TYR	A	644	26.985	65.007	117.418	0.00	0.00	C
ATOM	9636	CD2	TYR	A	644	28.276	63.902	119.149	0.00	0.00	C
ATOM	9637	CE1	TYR	A	644	27.911	66.069	117.400	0.00	0.00	C
ATOM	9638	CE2	TYR	A	644	29.210	64.959	119.118	0.00	0.00	C
ATOM	9639	CZ	TYR	A	644	29.027	66.047	118.250	0.00	0.00	C
ATOM	9640	OH	TYR	A	644	29.933	67.051	118.227	0.00	0.00	O
ATOM	9641	HN	TYR	A	644	25.319	62.523	115.981	0.00	0.00	H
ATOM	9642	HCA	TYR	A	644	27.515	61.499	117.348	0.00	0.00	H
ATOM	9643	HCB	TYR	A	644	25.140	63.205	118.111	0.00	0.00	H
ATOM	9644	HCB	TYR	A	644	26.059	62.502	119.411	0.00	0.00	H
ATOM	9645	HCD1	TYR	A	644	26.193	65.037	116.782	0.00	0.00	H
ATOM	9646	HCD2	TYR	A	644	28.429	63.124	119.794	0.00	0.00	H
ATOM	9647	HCE1	TYR	A	644	27.777	66.858	116.768	0.00	0.00	H
ATOM	9648	HCE2	TYR	A	644	30.034	64.938	119.720	0.00	0.00	H
ATOM	9649	HOH	TYR	A	644	29.852	67.793	117.614	0.00	0.00	H
ATOM	9650	N	SER	A	645	24.637	59.952	118.058	0.00	0.00	N
ATOM	9651	CA	SER	A	645	24.101	58.698	118.515	0.00	0.00	C
ATOM	9652	C	SER	A	645	24.777	57.546	117.865	0.00	0.00	C
ATOM	9653	O	SER	A	645	25.384	56.721	118.586	0.00	0.00	O
ATOM	9654	CB	SER	A	645	22.573	58.613	118.248	0.00	0.00	C
ATOM	9655	OG	SER	A	645	21.846	59.632	118.928	0.00	0.00	O
ATOM	9656	HN	SER	A	645	24.005	60.564	117.681	0.00	0.00	H
ATOM	9657	HCA	SER	A	645	24.250	58.642	119.599	0.00	0.00	H
ATOM	9658	HCB	SER	A	645	22.371	58.723	117.182	0.00	0.00	H
ATOM	9659	HCB	SER	A	645	22.181	57.644	118.569	0.00	0.00	H
ATOM	9660	HOG	SER	A	645	21.748	59.326	119.840	0.00	0.00	H
ATOM	9661	N	GLU	A	646	24.786	57.393	116.517	0.00	0.00	N
ATOM	9662	CA	GLU	A	646	25.409	56.305	115.809	0.00	0.00	C
ATOM	9663	C	GLU	A	646	26.824	56.116	116.213	0.00	0.00	C
ATOM	9664	O	GLU	A	646	27.186	55.039	116.759	0.00	0.00	O
ATOM	9665	CB	GLU	A	646	25.249	56.493	114.269	0.00	0.00	C
ATOM	9666	CG	GLU	A	646	23.819	56.148	113.756	0.00	0.00	C
ATOM	9667	CD	GLU	A	646	23.498	54.713	113.864	0.00	0.00	C
ATOM	9668	OE1	GLU	A	646	24.048	53.876	113.117	0.00	0.00	O
ATOM	9669	OE2	GLU	A	646	22.707	54.286	114.733	0.00	0.00	O
ATOM	9670	HN	GLU	A	646	24.338	58.057	115.989	0.00	0.00	H
ATOM	9671	HCA	GLU	A	646	24.877	55.397	116.073	0.00	0.00	H
ATOM	9672	HCB	GLU	A	646	25.484	57.528	114.004	0.00	0.00	H
ATOM	9673	HCB	GLU	A	646	25.966	55.857	113.739	0.00	0.00	H
ATOM	9674	HCG	GLU	A	646	23.081	56.722	114.319	0.00	0.00	H
ATOM	9675	HCG	GLU	A	646	23.728	56.439	112.708	0.00	0.00	H
ATOM	9676	N	GLU	A	647	27.682	57.153	116.091	0.00	0.00	N
ATOM	9677	CA	GLU	A	647	29.071	57.107	116.443	0.00	0.00	C
ATOM	9678	C	GLU	A	647	29.317	56.914	117.902	0.00	0.00	C

ATOM	9679	O	GLU	A	647	30.508	56.813	118.283	0.00	0.00	O
ATOM	9680	CB	GLU	A	647	29.734	58.405	115.898	0.00	0.00	C
ATOM	9681	CG	GLU	A	647	29.755	58.514	114.342	0.00	0.00	C
ATOM	9682	CD	GLU	A	647	30.700	57.591	113.691	0.00	0.00	C
ATOM	9683	OE1	GLU	A	647	31.931	57.697	113.877	0.00	0.00	O
ATOM	9684	OE2	GLU	A	647	30.304	56.692	112.920	0.00	0.00	O
ATOM	9685	HN	GLU	A	647	27.328	57.995	115.786	0.00	0.00	H
ATOM	9686	HCA	GLU	A	647	29.530	56.253	115.935	0.00	0.00	H
ATOM	9687	HC	GLU	A	647	29.189	59.260	116.307	0.00	0.00	H
ATOM	9688	HC	GLU	A	647	30.764	58.476	116.262	0.00	0.00	H
ATOM	9689	HCG	GLU	A	647	28.752	58.343	113.947	0.00	0.00	H
ATOM	9690	HCG	GLU	A	647	30.043	59.524	114.051	0.00	0.00	H
ATOM	9691	N	GLY	A	648	28.310	56.788	118.804	0.00	0.00	N
ATOM	9692	CA	GLY	A	648	28.452	56.524	120.198	0.00	0.00	C
ATOM	9693	C	GLY	A	648	27.752	55.309	120.650	0.00	0.00	C
ATOM	9694	O	GLY	A	648	27.702	55.135	121.891	0.00	0.00	O
ATOM	9695	HN	GLY	A	648	27.394	56.853	118.520	0.00	0.00	H
ATOM	9696	HCA	GLY	A	648	29.495	56.460	120.516	0.00	0.00	H
ATOM	9697	HCA	GLY	A	648	28.000	57.362	120.714	0.00	0.00	H
ATOM	9698	N	LYS	A	649	27.201	54.395	119.805	0.00	0.00	N
ATOM	9699	CA	LYS	A	649	26.595	53.159	120.260	0.00	0.00	C
ATOM	9700	C	LYS	A	649	27.518	52.339	121.102	0.00	0.00	C
ATOM	9701	O	LYS	A	649	28.749	52.331	120.851	0.00	0.00	O
ATOM	9702	CB	LYS	A	649	26.009	52.324	119.070	0.00	0.00	C
ATOM	9703	CG	LYS	A	649	24.455	52.327	118.968	0.00	0.00	C
ATOM	9704	CD	LYS	A	649	23.862	53.721	118.635	0.00	0.00	C
ATOM	9705	CE	LYS	A	649	22.331	53.747	118.416	0.00	0.00	C
ATOM	9706	NZ	LYS	A	649	21.920	53.011	117.214	0.00	0.00	N
ATOM	9707	HN	LYS	A	649	27.219	54.586	118.857	0.00	0.00	H
ATOM	9708	HNZ	LYS	A	649	22.234	53.474	116.376	0.00	0.00	H
ATOM	9709	HNZ	LYS	A	649	22.301	52.067	117.240	0.00	0.00	H
ATOM	9710	HNZ	LYS	A	649	20.903	52.955	117.188	0.00	0.00	H
ATOM	9711	HCA	LYS	A	649	25.770	53.455	120.916	0.00	0.00	H
ATOM	9712	HC	LYS	A	649	26.431	52.671	118.123	0.00	0.00	H
ATOM	9713	HC	LYS	A	649	26.309	51.275	119.163	0.00	0.00	H
ATOM	9714	HCD	LYS	A	649	24.094	54.415	119.447	0.00	0.00	H
ATOM	9715	HCD	LYS	A	649	24.347	54.090	117.739	0.00	0.00	H
ATOM	9716	HCE	LYS	A	649	21.829	53.318	119.286	0.00	0.00	H
ATOM	9717	HCE	LYS	A	649	22.000	54.783	118.309	0.00	0.00	H
ATOM	9718	HCG	LYS	A	649	24.171	51.621	118.182	0.00	0.00	H
ATOM	9719	HCG	LYS	A	649	24.028	51.963	119.907	0.00	0.00	H
ATOM	9720	N	GLY	A	650	27.029	51.656	122.169	0.00	0.00	N
ATOM	9721	CA	GLY	A	650	27.810	50.934	123.137	0.00	0.00	C
ATOM	9722	C	GLY	A	650	28.445	51.825	124.134	0.00	0.00	C
ATOM	9723	O	GLY	A	650	28.293	51.625	125.361	0.00	0.00	O
ATOM	9724	HN	GLY	A	650	26.071	51.703	122.316	0.00	0.00	H
ATOM	9725	HCA	GLY	A	650	27.153	50.225	123.646	0.00	0.00	H
ATOM	9726	HCA	GLY	A	650	28.591	50.355	122.639	0.00	0.00	H
ATOM	9727	N	ILE	A	651	29.192	52.848	123.672	0.00	0.00	N
ATOM	9728	CA	ILE	A	651	29.915	53.817	124.449	0.00	0.00	C
ATOM	9729	C	ILE	A	651	29.005	54.642	125.296	0.00	0.00	C
ATOM	9730	O	ILE	A	651	29.188	54.646	126.537	0.00	0.00	O
ATOM	9731	CB	ILE	A	651	30.821	54.714	123.531	0.00	0.00	C
ATOM	9732	CG1	ILE	A	651	31.761	53.911	122.569	0.00	0.00	C
ATOM	9733	CG2	ILE	A	651	31.631	55.760	124.353	0.00	0.00	C
ATOM	9734	CD1	ILE	A	651	32.709	52.883	123.234	0.00	0.00	C
ATOM	9735	HN	ILE	A	651	29.200	52.886	122.715	0.00	0.00	H
ATOM	9736	HCA	ILE	A	651	30.581	53.262	125.118	0.00	0.00	H
ATOM	9737	HC	ILE	A	651	30.158	55.294	122.882	0.00	0.00	H
ATOM	9738	HCD1	ILE	A	651	33.321	53.354	124.001	0.00	0.00	H
ATOM	9739	HCD1	ILE	A	651	32.141	52.068	123.686	0.00	0.00	H
ATOM	9740	HCD1	ILE	A	651	33.373	52.454	122.481	0.00	0.00	H
ATOM	9741	HCG1	ILE	A	651	31.148	53.377	121.838	0.00	0.00	H
ATOM	9742	HCG1	ILE	A	651	32.371	54.617	121.998	0.00	0.00	H
ATOM	9743	HCG2	ILE	A	651	30.967	56.432	124.896	0.00	0.00	H
ATOM	9744	HCG2	ILE	A	651	32.272	55.265	125.082	0.00	0.00	H
ATOM	9745	HCG2	ILE	A	651	32.243	56.375	123.691	0.00	0.00	H
ATOM	9746	N	PHE	A	652	28.042	55.418	124.739	0.00	0.00	N
ATOM	9747	CA	PHE	A	652	27.194	56.336	125.455	0.00	0.00	C
ATOM	9748	C	PHE	A	652	25.758	56.275	125.071	0.00	0.00	C
ATOM	9749	O	PHE	A	652	25.407	55.718	124.004	0.00	0.00	O
ATOM	9750	CB	PHE	A	652	27.792	57.780	125.379	0.00	0.00	C
ATOM	9751	CG	PHE	A	652	27.999	58.422	124.045	0.00	0.00	C
ATOM	9752	CD1	PHE	A	652	26.910	58.729	123.195	0.00	0.00	C
ATOM	9753	CD2	PHE	A	652	29.289	58.848	123.644	0.00	0.00	C
ATOM	9754	CE1	PHE	A	652	27.088	59.485	122.021	0.00	0.00	C
ATOM	9755	CE2	PHE	A	652	29.476	59.589	122.463	0.00	0.00	C
ATOM	9756	CZ	PHE	A	652	28.375	59.915	121.653	0.00	0.00	C
ATOM	9757	HN	PHE	A	652	27.929	55.354	123.790	0.00	0.00	H
ATOM	9758	HCA	PHE	A	652	27.193	56.051	126.512	0.00	0.00	H

ATOM	9759	HC	PHE	A	652	27.157	58.456	125.953	0.00	0.00	H
ATOM	9760	HC	PHE	A	652	28.745	57.750	125.911	0.00	0.00	H
ATOM	9761	HCD1	PHE	A	652	25.969	58.422	123.427	0.00	0.00	H
ATOM	9762	HCD2	PHE	A	652	30.105	58.645	124.223	0.00	0.00	H
ATOM	9763	HCE1	PHE	A	652	26.284	59.716	121.434	0.00	0.00	H
ATOM	9764	HCE2	PHE	A	652	30.410	59.907	122.201	0.00	0.00	H
ATOM	9765	HCZ	PHE	A	652	28.508	60.460	120.798	0.00	0.00	H
ATOM	9766	N	ASP	A	653	24.847	56.874	125.879	0.00	0.00	N
ATOM	9767	CA	ASP	A	653	23.461	57.125	125.547	0.00	0.00	C
ATOM	9768	C	ASP	A	653	23.301	58.516	125.013	0.00	0.00	C
ATOM	9769	O	ASP	A	653	24.257	59.331	124.995	0.00	0.00	O
ATOM	9770	CB	ASP	A	653	22.572	56.764	126.778	0.00	0.00	C
ATOM	9771	CG	ASP	A	653	21.101	56.802	126.598	0.00	0.00	C
ATOM	9772	OD1	ASP	A	653	20.523	56.750	125.490	0.00	0.00	O
ATOM	9773	OD2	ASP	A	653	20.342	56.958	127.577	0.00	0.00	O
ATOM	9774	HN	ASP	A	653	25.202	57.198	126.714	0.00	0.00	H
ATOM	9775	HCA	ASP	A	653	23.155	56.456	124.735	0.00	0.00	H
ATOM	9776	HC	ASP	A	653	22.809	55.746	127.092	0.00	0.00	H
ATOM	9777	HC	ASP	A	653	22.843	57.423	127.603	0.00	0.00	H
ATOM	9778	N	SER	A	654	22.124	58.902	124.473	0.00	0.00	N
ATOM	9779	CA	SER	A	654	21.945	60.070	123.641	0.00	0.00	C
ATOM	9780	C	SER	A	654	20.578	60.664	123.666	0.00	0.00	C
ATOM	9781	O	SER	A	654	19.587	59.930	123.418	0.00	0.00	O
ATOM	9782	CB	SER	A	654	22.359	59.727	122.182	0.00	0.00	C
ATOM	9783	OG	SER	A	654	21.485	58.745	121.626	0.00	0.00	O
ATOM	9784	HN	SER	A	654	21.414	58.276	124.635	0.00	0.00	H
ATOM	9785	HCA	SER	A	654	22.636	60.841	123.971	0.00	0.00	H
ATOM	9786	HC	SER	A	654	22.319	60.631	121.568	0.00	0.00	H
ATOM	9787	HC	SER	A	654	23.384	59.348	122.152	0.00	0.00	H
ATOM	9788	HOG	SER	A	654	20.664	58.984	122.086	0.00	0.00	H
ATOM	9789	N	ARG	A	655	20.410	61.997	123.869	0.00	0.00	N
ATOM	9790	CA	ARG	A	655	19.159	62.713	123.695	0.00	0.00	C
ATOM	9791	C	ARG	A	655	19.271	63.994	122.952	0.00	0.00	C
ATOM	9792	O	ARG	A	655	20.309	64.691	123.040	0.00	0.00	O
ATOM	9793	CB	ARG	A	655	18.465	63.002	125.057	0.00	0.00	C
ATOM	9794	CG	ARG	A	655	17.943	61.745	125.791	0.00	0.00	C
ATOM	9795	CD	ARG	A	655	16.794	60.978	125.086	0.00	0.00	C
ATOM	9796	NE	ARG	A	655	16.381	59.879	125.893	0.00	0.00	N
ATOM	9797	CZ	ARG	A	655	17.056	58.735	126.066	0.00	0.00	C
ATOM	9798	NH1	ARG	A	655	18.217	58.470	125.473	0.00	0.00	N
ATOM	9799	NH2	ARG	A	655	16.563	57.841	126.905	0.00	0.00	N
ATOM	9800	HN	ARG	A	655	21.208	62.478	124.125	0.00	0.00	H
ATOM	9801	HNE	ARG	A	655	15.585	60.028	126.406	0.00	0.00	H
ATOM	9802	HNH1	ARG	A	655	18.568	59.045	124.800	0.00	0.00	H
ATOM	9803	HNH1	ARG	A	655	18.779	57.728	125.711	0.00	0.00	H
ATOM	9804	HNH2	ARG	A	655	15.723	58.017	127.349	0.00	0.00	H
ATOM	9805	HNH2	ARG	A	655	17.042	57.017	127.057	0.00	0.00	H
ATOM	9806	HCA	ARG	A	655	18.481	62.105	123.092	0.00	0.00	H
ATOM	9807	HC	ARG	A	655	19.179	63.515	125.709	0.00	0.00	H
ATOM	9808	HC	ARG	A	655	17.611	63.676	124.920	0.00	0.00	H
ATOM	9809	HCD	ARG	A	655	15.938	61.649	124.953	0.00	0.00	H
ATOM	9810	HCD	ARG	A	655	17.087	60.608	124.103	0.00	0.00	H
ATOM	9811	HCG	ARG	A	655	18.784	61.073	125.961	0.00	0.00	H
ATOM	9812	HCG	ARG	A	655	17.576	62.071	126.763	0.00	0.00	H
ATOM	9813	N	LYS	A	656	18.168	64.437	122.294	0.00	0.00	N
ATOM	9814	CA	LYS	A	656	17.970	65.750	121.761	0.00	0.00	C
ATOM	9815	C	LYS	A	656	16.914	66.475	122.523	0.00	0.00	C
ATOM	9816	O	LYS	A	656	15.827	65.909	122.789	0.00	0.00	O
ATOM	9817	CB	LYS	A	656	17.722	65.752	120.223	0.00	0.00	C
ATOM	9818	CG	LYS	A	656	16.348	65.221	119.733	0.00	0.00	C
ATOM	9819	CD	LYS	A	656	16.189	65.351	118.191	0.00	0.00	C
ATOM	9820	CE	LYS	A	656	14.779	64.989	117.672	0.00	0.00	C
ATOM	9821	NZ	LYS	A	656	13.782	65.978	118.100	0.00	0.00	N
ATOM	9822	HN	LYS	A	656	17.417	63.828	122.233	0.00	0.00	H
ATOM	9823	HNZ	LYS	A	656	14.056	66.906	117.773	0.00	0.00	H
ATOM	9824	HNZ	LYS	A	656	12.870	65.741	117.709	0.00	0.00	H
ATOM	9825	HNZ	LYS	A	656	13.718	65.987	119.118	0.00	0.00	H
ATOM	9826	HCA	LYS	A	656	18.899	66.297	121.887	0.00	0.00	H
ATOM	9827	HC	LYS	A	656	17.837	66.782	119.872	0.00	0.00	H
ATOM	9828	HC	LYS	A	656	18.515	65.166	119.755	0.00	0.00	H
ATOM	9829	HCD	LYS	A	656	16.415	66.374	117.882	0.00	0.00	H
ATOM	9830	HCD	LYS	A	656	16.916	64.695	117.707	0.00	0.00	H
ATOM	9831	HCE	LYS	A	656	14.792	64.967	116.579	0.00	0.00	H
ATOM	9832	HCE	LYS	A	656	14.486	64.000	118.032	0.00	0.00	H
ATOM	9833	HCG	LYS	A	656	16.238	64.173	120.027	0.00	0.00	H
ATOM	9834	HCG	LYS	A	656	15.555	65.796	120.214	0.00	0.00	H
ATOM	9835	N	ASN	A	657	17.127	67.760	122.877	0.00	0.00	N
ATOM	9836	CA	ASN	A	657	16.168	68.676	123.442	0.00	0.00	C
ATOM	9837	C	ASN	A	657	15.985	69.818	122.509	0.00	0.00	C
ATOM	9838	O	ASN	A	657	16.974	70.298	121.901	0.00	0.00	O

ATOM	9839	CB	ASN	A	657	16.645	69.212	124.822	0.00	0.00		C
ATOM	9840	CG	ASN	A	657	16.452	68.281	125.946	0.00	0.00		C
ATOM	9841	ND2	ASN	A	657	15.267	68.121	126.549	0.00	0.00		N
ATOM	9842	OD1	ASN	A	657	17.415	67.646	126.420	0.00	0.00		O
ATOM	9843	HN	ASN	A	657	18.005	68.086	122.665	0.00	0.00		H
ATOM	9844	HND2	ASN	A	657	14.460	68.492	126.190	0.00	0.00		H
ATOM	9845	HND2	ASN	A	657	15.233	67.659	127.386	0.00	0.00		H
ATOM	9846	HCA	ASN	A	657	15.192	68.196	123.576	0.00	0.00		H
ATOM	9847	HCN	ASN	A	657	17.702	69.477	124.756	0.00	0.00		H
ATOM	9848	HCN	ASN	A	657	16.108	70.129	125.083	0.00	0.00		H
ATOM	9849	N	VAL	A	658	14.769	70.394	122.380	0.00	0.00		N
ATOM	9850	CA	VAL	A	658	14.511	71.613	121.672	0.00	0.00		C
ATOM	9851	C	VAL	A	658	14.099	72.602	122.694	0.00	0.00		C
ATOM	9852	O	VAL	A	658	13.061	72.431	123.372	0.00	0.00		O
ATOM	9853	CB	VAL	A	658	13.492	71.420	120.498	0.00	0.00		C
ATOM	9854	CG1	VAL	A	658	13.189	72.747	119.744	0.00	0.00		C
ATOM	9855	CG2	VAL	A	658	13.964	70.337	119.487	0.00	0.00		C
ATOM	9856	HN	VAL	A	658	14.016	69.997	122.846	0.00	0.00		H
ATOM	9857	HCA	VAL	A	658	15.424	71.996	121.221	0.00	0.00		H
ATOM	9858	HCN	VAL	A	658	12.551	71.069	120.915	0.00	0.00		H
ATOM	9859	HCG1	VAL	A	658	14.100	73.164	119.309	0.00	0.00		H
ATOM	9860	HCG1	VAL	A	658	12.470	72.575	118.940	0.00	0.00		H
ATOM	9861	HCG1	VAL	A	658	12.756	73.484	120.422	0.00	0.00		H
ATOM	9862	HCG2	VAL	A	658	14.083	69.374	119.985	0.00	0.00		H
ATOM	9863	HCG2	VAL	A	658	13.229	70.212	118.689	0.00	0.00		H
ATOM	9864	HCG2	VAL	A	658	14.918	70.617	119.038	0.00	0.00		H
ATOM	9865	N	LEU	A	659	14.826	73.722	122.878	0.00	0.00		N
ATOM	9866	CA	LEU	A	659	14.393	74.861	123.617	0.00	0.00		C
ATOM	9867	C	LEU	A	659	13.617	75.661	122.639	0.00	0.00		C
ATOM	9868	O	LEU	A	659	12.424	76.004	122.858	0.00	0.00		O
ATOM	9869	CB	LEU	A	659	15.607	75.679	124.159	0.00	0.00		C
ATOM	9870	CG	LEU	A	659	16.742	74.906	124.887	0.00	0.00		C
ATOM	9871	CD1	LEU	A	659	17.820	75.908	125.390	0.00	0.00		C
ATOM	9872	CD2	LEU	A	659	16.259	74.008	126.054	0.00	0.00		C
ATOM	9873	HN	LEU	A	659	15.614	73.860	122.355	0.00	0.00		H
ATOM	9874	HCA	LEU	A	659	13.753	74.573	124.455	0.00	0.00		H
ATOM	9875	HCN	LEU	A	659	16.077	76.226	123.337	0.00	0.00		H
ATOM	9876	HCN	LEU	A	659	15.220	76.428	124.834	0.00	0.00		H
ATOM	9877	HCD1	LEU	A	659	18.252	76.457	124.553	0.00	0.00		H
ATOM	9878	HCD1	LEU	A	659	17.386	76.628	126.085	0.00	0.00		H
ATOM	9879	HCD1	LEU	A	659	18.628	75.390	125.909	0.00	0.00		H
ATOM	9880	HCD2	LEU	A	659	15.527	73.276	125.709	0.00	0.00		H
ATOM	9881	HCD2	LEU	A	659	17.100	73.463	126.487	0.00	0.00		H
ATOM	9882	HCD2	LEU	A	659	15.813	74.614	126.837	0.00	0.00		H
ATOM	9883	HCG	LEU	A	659	17.201	74.258	124.141	0.00	0.00		H
ATOM	9884	N	GLY	A	660	14.276	75.984	121.495	0.00	0.00		N
ATOM	9885	CA	GLY	A	660	13.798	76.860	120.484	0.00	0.00		C
ATOM	9886	C	GLY	A	660	13.404	78.163	121.048	0.00	0.00		C
ATOM	9887	O	GLY	A	660	14.164	78.732	121.874	0.00	0.00		O
ATOM	9888	HN	GLY	A	660	15.153	75.593	121.383	0.00	0.00		H
ATOM	9889	HCA	GLY	A	660	14.603	77.031	119.767	0.00	0.00		H
ATOM	9890	HCA	GLY	A	660	12.966	76.388	119.954	0.00	0.00		H
ATOM	9891	N	HSE	A	661	12.216	78.693	120.690	0.00	0.00		N
ATOM	9892	CA	HSE	A	661	11.737	79.995	121.045	0.00	0.00		C
ATOM	9893	C	HSE	A	661	11.156	79.982	122.416	0.00	0.00		C
ATOM	9894	O	HSE	A	661	9.938	80.214	122.603	0.00	0.00		O
ATOM	9895	CB	HSE	A	661	10.805	80.524	119.906	0.00	0.00		C
ATOM	9896	CG	HSE	A	661	11.340	80.276	118.545	0.00	0.00		C
ATOM	9897	CD2	HSE	A	661	12.582	80.647	118.036	0.00	0.00		C
ATOM	9898	ND1	HSE	A	661	10.712	79.567	117.591	0.00	0.00		N
ATOM	9899	CE1	HSE	A	661	11.543	79.485	116.537	0.00	0.00		C
ATOM	9900	NE2	HSE	A	661	12.690	80.119	116.813	0.00	0.00		N
ATOM	9901	HN	HSE	A	661	11.647	78.157	120.116	0.00	0.00		H
ATOM	9902	HNE2	HSE	A	661	13.464	80.156	116.246	0.00	0.00		H
ATOM	9903	HCA	HSE	A	661	12.582	80.679	121.084	0.00	0.00		H
ATOM	9904	HCN	HSE	A	661	9.828	80.039	119.979	0.00	0.00		H
ATOM	9905	HCN	HSE	A	661	10.651	81.599	120.028	0.00	0.00		H
ATOM	9906	HCD2	HSE	A	661	13.298	81.192	118.512	0.00	0.00		H
ATOM	9907	HCE1	HSE	A	661	11.336	78.997	115.663	0.00	0.00		H
ATOM	9908	N	MET	A	662	11.959	79.672	123.467	0.00	0.00		N
ATOM	9909	CA	MET	A	662	11.582	79.645	124.864	0.00	0.00		C
ATOM	9910	C	MET	A	662	11.472	80.993	125.504	0.00	0.00		C
ATOM	9911	O	MET	A	662	11.996	81.278	126.605	0.00	0.00		O
ATOM	9912	CB	MET	A	662	12.362	78.583	125.687	0.00	0.00		C
ATOM	9913	CG	MET	A	662	13.889	78.786	125.845	0.00	0.00		C
ATOM	9914	SD	MET	A	662	14.674	77.862	127.206	0.00	0.00		S
ATOM	9915	CE	MET	A	662	13.648	76.382	127.371	0.00	0.00		C
ATOM	9916	HN	MET	A	662	12.840	79.413	123.190	0.00	0.00		H
ATOM	9917	HCA	MET	A	662	10.558	79.260	124.886	0.00	0.00		H
ATOM	9918	HCN	MET	A	662	11.919	78.571	126.683	0.00	0.00		H

ATOM	9919	HC	B	MET	A	662	12.187	77.602	125.236	0.00	0.00	H
ATOM	9920	HCE		MET	A	662	12.644	76.627	127.704	0.00	0.00	H
ATOM	9921	HCE		MET	A	662	13.581	75.846	126.430	0.00	0.00	H
ATOM	9922	HCE		MET	A	662	14.103	75.736	128.113	0.00	0.00	H
ATOM	9923	HCG		MET	A	662	14.382	78.545	124.903	0.00	0.00	H
ATOM	9924	HCG		MET	A	662	14.092	79.833	126.047	0.00	0.00	H
ATOM	9925	N		GLN	A	663	10.628	81.835	124.881	0.00	0.00	N
ATOM	9926	CA		GLN	A	663	9.922	82.988	125.353	0.00	0.00	C
ATOM	9927	C		GLN	A	663	10.482	83.768	126.475	0.00	0.00	C
ATOM	9928	O		GLN	A	663	10.108	83.585	127.629	0.00	0.00	O
ATOM	9929	CB		GLN	A	663	8.499	82.395	125.587	0.00	0.00	C
ATOM	9930	CG		GLN	A	663	7.420	83.471	125.784	0.00	0.00	C
ATOM	9931	CD		GLN	A	663	6.040	82.988	125.858	0.00	0.00	C
ATOM	9932	NE2		GLN	A	663	5.104	83.743	126.423	0.00	0.00	N
ATOM	9933	OE1		GLN	A	663	5.659	81.919	125.360	0.00	0.00	O
ATOM	9934	HN		GLN	A	663	10.340	81.465	124.048	0.00	0.00	H
ATOM	9935	HNE2		GLN	A	663	5.356	84.585	126.779	0.00	0.00	H
ATOM	9936	HNE2		GLN	A	663	4.191	83.418	126.469	0.00	0.00	H
ATOM	9937	HCA		GLN	A	663	9.853	83.662	124.494	0.00	0.00	H
ATOM	9938	HC	B	GLN	A	663	8.200	81.784	124.725	0.00	0.00	H
ATOM	9939	HC	B	GLN	A	663	8.520	81.748	126.465	0.00	0.00	H
ATOM	9940	HCG		GLN	A	663	7.646	83.998	126.711	0.00	0.00	H
ATOM	9941	HCG		GLN	A	663	7.473	84.151	124.936	0.00	0.00	H
ATOM	9942	N		GLN	A	664	11.350	84.738	126.235	0.00	0.00	N
ATOM	9943	CA		GLN	A	664	12.141	85.468	127.206	0.00	0.00	C
ATOM	9944	C		GLN	A	664	11.444	86.645	127.749	0.00	0.00	C
ATOM	9945	O		GLN	A	664	11.869	87.796	127.645	0.00	0.00	O
ATOM	9946	CB		GLN	A	664	13.528	85.790	126.578	0.00	0.00	C
ATOM	9947	CG		GLN	A	664	14.191	84.646	125.755	0.00	0.00	C
ATOM	9948	CD		GLN	A	664	14.543	83.404	126.460	0.00	0.00	C
ATOM	9949	NE2		GLN	A	664	14.944	82.345	125.752	0.00	0.00	N
ATOM	9950	OE1		GLN	A	664	14.523	83.286	127.703	0.00	0.00	O
ATOM	9951	HN		GLN	A	664	11.502	84.956	125.304	0.00	0.00	H
ATOM	9952	HNE2		GLN	A	664	14.937	82.362	124.791	0.00	0.00	H
ATOM	9953	HNE2		GLN	A	664	15.227	81.552	126.227	0.00	0.00	H
ATOM	9954	HCA		GLN	A	664	12.347	84.810	128.058	0.00	0.00	H
ATOM	9955	HC	B	GLN	A	664	13.396	86.638	125.909	0.00	0.00	H
ATOM	9956	HC	B	GLN	A	664	14.217	86.107	127.367	0.00	0.00	H
ATOM	9957	HCG		GLN	A	664	13.550	84.392	124.909	0.00	0.00	H
ATOM	9958	HCG		GLN	A	664	15.119	85.033	125.348	0.00	0.00	H
ATOM	9959	N		GLY	A	665	10.323	86.392	128.397	0.00	0.00	N
ATOM	9960	CA		GLY	A	665	9.471	87.334	129.069	0.00	0.00	C
ATOM	9961	C		GLY	A	665	9.432	87.235	130.544	0.00	0.00	C
ATOM	9962	O		GLY	A	665	8.708	88.068	131.131	0.00	0.00	O
ATOM	9963	HN		GLY	A	665	10.079	85.462	128.346	0.00	0.00	H
ATOM	9964	HCA		GLY	A	665	9.740	88.362	128.813	0.00	0.00	H
ATOM	9965	HCA		GLY	A	665	8.459	87.173	128.704	0.00	0.00	H
ATOM	9966	N		GLY	A	666	10.124	86.304	131.244	0.00	0.00	N
ATOM	9967	CA		GLY	A	666	10.011	86.042	132.659	0.00	0.00	C
ATOM	9968	C		GLY	A	666	10.196	87.207	133.557	0.00	0.00	C
ATOM	9969	O		GLY	A	666	9.255	87.603	134.286	0.00	0.00	O
ATOM	9970	HN		GLY	A	666	10.706	85.724	130.729	0.00	0.00	H
ATOM	9971	HCA		GLY	A	666	9.036	85.591	132.842	0.00	0.00	H
ATOM	9972	HCA		GLY	A	666	10.759	85.294	132.926	0.00	0.00	H
ATOM	9973	N		SER	A	667	11.388	87.841	133.573	0.00	0.00	N
ATOM	9974	CA		SER	A	667	11.695	89.070	134.259	0.00	0.00	C
ATOM	9975	C		SER	A	667	13.028	89.582	133.817	0.00	0.00	C
ATOM	9976	O		SER	A	667	13.945	88.747	133.596	0.00	0.00	O
ATOM	9977	CB		SER	A	667	11.678	88.976	135.812	0.00	0.00	C
ATOM	9978	OG		SER	A	667	12.133	90.186	136.443	0.00	0.00	O
ATOM	9979	HN		SER	A	667	12.094	87.439	133.044	0.00	0.00	H
ATOM	9980	HCA		SER	A	667	10.916	89.775	133.964	0.00	0.00	H
ATOM	9981	HC	B	SER	A	667	10.674	88.746	136.175	0.00	0.00	H
ATOM	9982	HC	B	SER	A	667	12.340	88.165	136.126	0.00	0.00	H
ATOM	9983	HOG		SER	A	667	11.395	90.827	136.527	0.00	0.00	H
ATOM	9984	N		PRO	A	668	13.307	90.908	133.640	0.00	0.00	N
ATOM	9985	CA		PRO	A	668	14.634	91.394	133.352	0.00	0.00	C
ATOM	9986	C		PRO	A	668	15.573	91.188	134.454	0.00	0.00	C
ATOM	9987	O		PRO	A	668	15.229	91.509	135.579	0.00	0.00	O
ATOM	9988	CB		PRO	A	668	14.423	92.886	133.027	0.00	0.00	C
ATOM	9989	CG		PRO	A	668	13.131	93.250	133.771	0.00	0.00	C
ATOM	9990	CD		PRO	A	668	12.326	91.956	133.686	0.00	0.00	C
ATOM	9991	HCA		PRO	A	668	15.011	90.926	132.442	0.00	0.00	H
ATOM	9992	HC	B	PRO	A	668	15.269	93.518	133.289	0.00	0.00	H
ATOM	9993	HC	B	PRO	A	668	14.281	92.988	131.958	0.00	0.00	H
ATOM	9994	HCD		PRO	A	668	11.659	91.896	134.548	0.00	0.00	H
ATOM	9995	HCD		PRO	A	668	11.735	91.942	132.769	0.00	0.00	H
ATOM	9996	HCG		PRO	A	668	13.331	93.459	134.821	0.00	0.00	H
ATOM	9997	HCG		PRO	A	668	12.599	94.096	133.334	0.00	0.00	H
ATOM	9998	N		THR	A	669	16.773	90.675	134.254	0.00	0.00	N

ATOM	9999	CA	THR	A	669	17.875	90.684	135.202	0.00	0.00	C
ATOM	10000	C	THR	A	669	18.218	92.031	135.757	0.00	0.00	C
ATOM	10001	O	THR	A	669	17.880	93.029	135.077	0.00	0.00	O
ATOM	10002	CB	THR	A	669	19.185	90.129	134.559	0.00	0.00	C
ATOM	10003	CG2	THR	A	669	19.063	88.660	134.118	0.00	0.00	C
ATOM	10004	OG1	THR	A	669	19.598	90.942	133.461	0.00	0.00	O
ATOM	10005	HN	THR	A	669	16.869	90.217	133.414	0.00	0.00	H
ATOM	10006	HCA	THR	A	669	17.576	90.035	136.029	0.00	0.00	H
ATOM	10007	HCB	THR	A	669	20.009	90.160	135.275	0.00	0.00	H
ATOM	10008	HCG2	THR	A	669	18.717	88.034	134.941	0.00	0.00	H
ATOM	10009	HCG2	THR	A	669	18.354	88.596	133.309	0.00	0.00	H
ATOM	10010	HCG2	THR	A	669	20.024	88.279	133.771	0.00	0.00	H
ATOM	10011	HOG1	THR	A	669	20.450	90.531	133.232	0.00	0.00	H
ATOM	10012	N	PRO	A	670	18.955	92.245	136.896	0.00	0.00	N
ATOM	10013	CA	PRO	A	670	19.456	93.548	137.285	0.00	0.00	C
ATOM	10014	C	PRO	A	670	20.173	94.247	136.217	0.00	0.00	C
ATOM	10015	O	PRO	A	670	19.913	95.430	136.011	0.00	0.00	O
ATOM	10016	CB	PRO	A	670	20.346	93.294	138.529	0.00	0.00	C
ATOM	10017	CG	PRO	A	670	20.559	91.774	138.532	0.00	0.00	C
ATOM	10018	CD	PRO	A	670	19.294	91.236	137.859	0.00	0.00	C
ATOM	10019	HCA	PRO	A	670	18.600	94.156	137.598	0.00	0.00	H
ATOM	10020	HCB	PRO	A	670	21.302	93.826	138.500	0.00	0.00	H
ATOM	10021	HCB	PRO	A	670	19.815	93.594	139.439	0.00	0.00	H
ATOM	10022	HCD	PRO	A	670	19.495	90.246	137.451	0.00	0.00	H
ATOM	10023	HCD	PRO	A	670	18.488	91.146	138.588	0.00	0.00	H
ATOM	10024	HCG	PRO	A	670	21.446	91.512	137.944	0.00	0.00	H
ATOM	10025	HCG	PRO	A	670	20.664	91.377	139.541	0.00	0.00	H
ATOM	10026	N	PHE	A	671	21.027	93.591	135.445	0.00	0.00	N
ATOM	10027	CA	PHE	A	671	21.675	94.118	134.276	0.00	0.00	C
ATOM	10028	C	PHE	A	671	20.678	94.593	133.277	0.00	0.00	C
ATOM	10029	O	PHE	A	671	20.713	95.814	132.995	0.00	0.00	O
ATOM	10030	CB	PHE	A	671	22.659	93.084	133.657	0.00	0.00	C
ATOM	10031	CG	PHE	A	671	23.402	93.633	132.484	0.00	0.00	C
ATOM	10032	CD1	PHE	A	671	24.642	94.292	132.655	0.00	0.00	C
ATOM	10033	CD2	PHE	A	671	22.860	93.546	131.179	0.00	0.00	C
ATOM	10034	CE1	PHE	A	671	25.317	94.852	131.553	0.00	0.00	C
ATOM	10035	CE2	PHE	A	671	23.531	94.107	130.077	0.00	0.00	C
ATOM	10036	CZ	PHE	A	671	24.761	94.762	130.264	0.00	0.00	C
ATOM	10037	HN	PHE	A	671	21.205	92.665	135.672	0.00	0.00	H
ATOM	10038	HCA	PHE	A	671	22.283	94.968	134.610	0.00	0.00	H
ATOM	10039	HCB	PHE	A	671	23.370	92.758	134.422	0.00	0.00	H
ATOM	10040	HCB	PHE	A	671	22.106	92.194	133.355	0.00	0.00	H
ATOM	10041	HCD1	PHE	A	671	25.058	94.373	133.586	0.00	0.00	H
ATOM	10042	HCD2	PHE	A	671	21.963	93.082	131.022	0.00	0.00	H
ATOM	10043	HCE1	PHE	A	671	26.212	95.328	131.690	0.00	0.00	H
ATOM	10044	HCE2	PHE	A	671	23.122	94.041	129.141	0.00	0.00	H
ATOM	10045	HCZ	PHE	A	671	25.249	95.171	129.464	0.00	0.00	H
ATOM	10046	N	ASP	A	672	19.745	93.782	132.704	0.00	0.00	N
ATOM	10047	CA	ASP	A	672	18.781	94.241	131.733	0.00	0.00	C
ATOM	10048	C	ASP	A	672	17.974	95.388	132.247	0.00	0.00	C
ATOM	10049	O	ASP	A	672	17.827	96.386	131.503	0.00	0.00	O
ATOM	10050	CB	ASP	A	672	17.868	93.091	131.202	0.00	0.00	C
ATOM	10051	CG	ASP	A	672	18.439	92.287	130.104	0.00	0.00	C
ATOM	10052	OD1	ASP	A	672	19.077	92.795	129.157	0.00	0.00	O
ATOM	10053	OD2	ASP	A	672	18.171	91.075	129.987	0.00	0.00	O
ATOM	10054	HN	ASP	A	672	19.722	92.853	132.958	0.00	0.00	H
ATOM	10055	HCA	ASP	A	672	19.356	94.621	130.882	0.00	0.00	H
ATOM	10056	HCB	ASP	A	672	17.587	92.433	132.026	0.00	0.00	H
ATOM	10057	HCB	ASP	A	672	16.947	93.511	130.791	0.00	0.00	H
ATOM	10058	N	ARG	A	673	17.481	95.411	133.511	0.00	0.00	N
ATOM	10059	CA	ARG	A	673	16.803	96.526	134.126	0.00	0.00	C
ATOM	10060	C	ARG	A	673	17.624	97.774	134.070	0.00	0.00	C
ATOM	10061	O	ARG	A	673	17.171	98.769	133.447	0.00	0.00	O
ATOM	10062	CB	ARG	A	673	16.431	96.211	135.607	0.00	0.00	C
ATOM	10063	CG	ARG	A	673	15.381	95.089	135.813	0.00	0.00	C
ATOM	10064	CD	ARG	A	673	15.081	94.723	137.289	0.00	0.00	C
ATOM	10065	NE	ARG	A	673	14.404	93.482	137.413	0.00	0.00	N
ATOM	10066	CZ	ARG	A	673	13.820	93.008	138.511	0.00	0.00	C
ATOM	10067	NH1	ARG	A	673	13.744	93.644	139.666	0.00	0.00	N
ATOM	10068	NH2	ARG	A	673	13.297	91.796	138.506	0.00	0.00	N
ATOM	10069	HN	ARG	A	673	17.618	94.621	134.035	0.00	0.00	H
ATOM	10070	HNE	ARG	A	673	14.541	92.844	136.721	0.00	0.00	H
ATOM	10071	HNH1	ARG	A	673	14.066	94.544	139.774	0.00	0.00	H
ATOM	10072	HNH1	ARG	A	673	13.354	93.148	140.388	0.00	0.00	H
ATOM	10073	HNH2	ARG	A	673	13.103	91.309	137.710	0.00	0.00	H
ATOM	10074	HNH2	ARG	A	673	13.088	91.375	139.337	0.00	0.00	H
ATOM	10075	HCA	ARG	A	673	15.871	96.694	133.576	0.00	0.00	H
ATOM	10076	HCB	ARG	A	673	17.346	95.927	136.127	0.00	0.00	H
ATOM	10077	HCB	ARG	A	673	16.033	97.120	136.068	0.00	0.00	H
ATOM	10078	HCD	ARG	A	673	16.020	94.584	137.825	0.00	0.00	H

ATOM	10079	HCD	ARG	A	673	14.505	95.525	137.748	0.00	0.00	H
ATOM	10080	HCG	ARG	A	673	14.457	95.397	135.323	0.00	0.00	H
ATOM	10081	HCG	ARG	A	673	15.747	94.192	135.332	0.00	0.00	H
ATOM	10082	N	ASN	A	674	18.853	97.832	134.652	0.00	0.00	N
ATOM	10083	CA	ASN	A	674	19.715	98.990	134.633	0.00	0.00	C
ATOM	10084	C	ASN	A	674	19.989	99.459	133.247	0.00	0.00	C
ATOM	10085	O	ASN	A	674	19.816	100.664	132.953	0.00	0.00	O
ATOM	10086	CB	ASN	A	674	21.067	98.707	135.357	0.00	0.00	C
ATOM	10087	CG	ASN	A	674	20.965	98.781	136.822	0.00	0.00	C
ATOM	10088	ND2	ASN	A	674	20.576	97.742	137.557	0.00	0.00	N
ATOM	10089	OD1	ASN	A	674	21.257	99.824	137.438	0.00	0.00	O
ATOM	10090	HN	ASN	A	674	19.177	97.039	135.093	0.00	0.00	H
ATOM	10091	HND2	ASN	A	674	20.353	96.928	137.116	0.00	0.00	H
ATOM	10092	HND2	ASN	A	674	20.515	97.850	138.505	0.00	0.00	H
ATOM	10093	HCA	ASN	A	674	19.203	99.799	135.166	0.00	0.00	H
ATOM	10094	HC	ASN	A	674	21.460	97.730	135.067	0.00	0.00	H
ATOM	10095	HC	ASN	A	674	21.812	99.450	135.056	0.00	0.00	H
ATOM	10096	N	PHE	A	675	20.413	98.580	132.316	0.00	0.00	N
ATOM	10097	CA	PHE	A	675	20.745	98.863	130.952	0.00	0.00	C
ATOM	10098	C	PHE	A	675	19.615	99.493	130.212	0.00	0.00	C
ATOM	10099	O	PHE	A	675	19.778	100.605	129.650	0.00	0.00	O
ATOM	10100	CB	PHE	A	675	21.210	97.506	130.344	0.00	0.00	C
ATOM	10101	CG	PHE	A	675	21.834	97.601	129.005	0.00	0.00	C
ATOM	10102	CD1	PHE	A	675	23.045	98.311	128.847	0.00	0.00	C
ATOM	10103	CD2	PHE	A	675	21.266	96.955	127.883	0.00	0.00	C
ATOM	10104	CE1	PHE	A	675	23.671	98.380	127.595	0.00	0.00	C
ATOM	10105	CE2	PHE	A	675	21.895	97.025	126.628	0.00	0.00	C
ATOM	10106	CZ	PHE	A	675	23.102	97.730	126.486	0.00	0.00	C
ATOM	10107	HN	PHE	A	675	20.500	97.667	132.589	0.00	0.00	H
ATOM	10108	HCA	PHE	A	675	21.591	99.557	130.962	0.00	0.00	H
ATOM	10109	HC	PHE	A	675	21.959	97.050	130.999	0.00	0.00	H
ATOM	10110	HC	PHE	A	675	20.359	96.820	130.321	0.00	0.00	H
ATOM	10111	HCD1	PHE	A	675	23.485	98.775	129.645	0.00	0.00	H
ATOM	10112	HCD2	PHE	A	675	20.397	96.423	127.973	0.00	0.00	H
ATOM	10113	HCE1	PHE	A	675	24.539	98.907	127.502	0.00	0.00	H
ATOM	10114	HCE2	PHE	A	675	21.473	96.562	125.822	0.00	0.00	H
ATOM	10115	HCZ	PHE	A	675	23.561	97.778	125.575	0.00	0.00	H
ATOM	10116	N	ALA	A	676	18.395	98.906	130.221	0.00	0.00	N
ATOM	10117	CA	ALA	A	676	17.197	99.440	129.650	0.00	0.00	C
ATOM	10118	C	ALA	A	676	16.852	100.780	130.191	0.00	0.00	C
ATOM	10119	O	ALA	A	676	16.656	101.731	129.393	0.00	0.00	O
ATOM	10120	CB	ALA	A	676	16.065	98.422	129.931	0.00	0.00	C
ATOM	10121	HN	ALA	A	676	18.299	98.063	130.668	0.00	0.00	H
ATOM	10122	HCA	ALA	A	676	17.331	99.515	128.568	0.00	0.00	H
ATOM	10123	HC	ALA	A	676	15.932	98.286	131.004	0.00	0.00	H
ATOM	10124	HC	ALA	A	676	15.121	98.748	129.500	0.00	0.00	H
ATOM	10125	HC	ALA	A	676	16.317	97.455	129.502	0.00	0.00	H
ATOM	10126	N	THR	A	677	16.763	100.978	131.530	0.00	0.00	N
ATOM	10127	CA	THR	A	677	16.422	102.236	132.142	0.00	0.00	C
ATOM	10128	C	THR	A	677	17.406	103.309	131.778	0.00	0.00	C
ATOM	10129	O	THR	A	677	17.017	104.404	131.295	0.00	0.00	O
ATOM	10130	CB	THR	A	677	16.104	102.027	133.667	0.00	0.00	C
ATOM	10131	CG2	THR	A	677	17.174	102.517	134.666	0.00	0.00	C
ATOM	10132	OG1	THR	A	677	14.870	102.639	134.049	0.00	0.00	O
ATOM	10133	HN	THR	A	677	16.931	100.228	132.112	0.00	0.00	H
ATOM	10134	HCA	THR	A	677	15.473	102.514	131.686	0.00	0.00	H
ATOM	10135	HC	THR	A	677	15.951	100.964	133.864	0.00	0.00	H
ATOM	10136	HCG2	THR	A	677	17.305	103.597	134.586	0.00	0.00	H
ATOM	10137	HCG2	THR	A	677	16.863	102.279	135.686	0.00	0.00	H
ATOM	10138	HCG2	THR	A	677	18.127	102.028	134.476	0.00	0.00	H
ATOM	10139	HOG1	THR	A	677	14.200	102.379	133.392	0.00	0.00	H
ATOM	10140	N	LYS	A	678	18.741	103.083	131.843	0.00	0.00	N
ATOM	10141	CA	LYS	A	678	19.765	103.984	131.388	0.00	0.00	C
ATOM	10142	C	LYS	A	678	19.596	104.379	129.964	0.00	0.00	C
ATOM	10143	O	LYS	A	678	19.568	105.603	129.678	0.00	0.00	O
ATOM	10144	CB	LYS	A	678	21.154	103.336	131.636	0.00	0.00	C
ATOM	10145	CG	LYS	A	678	22.338	104.279	131.278	0.00	0.00	C
ATOM	10146	CD	LYS	A	678	23.726	103.760	131.735	0.00	0.00	C
ATOM	10147	CE	LYS	A	678	23.814	103.550	133.267	0.00	0.00	C
ATOM	10148	NZ	LYS	A	678	25.144	103.840	133.795	0.00	0.00	N
ATOM	10149	HN	LYS	A	678	19.039	102.250	132.208	0.00	0.00	H
ATOM	10150	HNZ	LYS	A	678	25.445	104.767	133.519	0.00	0.00	H
ATOM	10151	HNZ	LYS	A	678	25.031	103.791	134.792	0.00	0.00	H
ATOM	10152	HNZ	LYS	A	678	25.812	103.135	133.479	0.00	0.00	H
ATOM	10153	HCA	LYS	A	678	19.702	104.881	132.014	0.00	0.00	H
ATOM	10154	HC	LYS	A	678	21.203	103.066	132.693	0.00	0.00	H
ATOM	10155	HC	LYS	A	678	21.247	102.412	131.057	0.00	0.00	H
ATOM	10156	HCD	LYS	A	678	23.950	102.818	131.225	0.00	0.00	H
ATOM	10157	HCD	LYS	A	678	24.474	104.490	131.415	0.00	0.00	H
ATOM	10158	HCE	LYS	A	678	23.118	104.212	133.791	0.00	0.00	H



ATOM	10159	HCE	LYS	A	678	23.549	102.520	133.522	0.00	0.00		H
ATOM	10160	HCG	LYS	A	678	22.366	104.418	130.194	0.00	0.00		H
ATOM	10161	HCG	LYS	A	678	22.165	105.262	131.725	0.00	0.00		H
ATOM	10162	N	MET	A	679	19.456	103.441	128.994	0.00	0.00		N
ATOM	10163	CA	MET	A	679	19.196	103.740	127.614	0.00	0.00		C
ATOM	10164	C	MET	A	679	17.984	104.594	127.439	0.00	0.00		C
ATOM	10165	O	MET	A	679	18.101	105.661	126.791	0.00	0.00		O
ATOM	10166	CB	MET	A	679	19.121	102.430	126.777	0.00	0.00		C
ATOM	10167	CG	MET	A	679	20.516	101.828	126.464	0.00	0.00		C
ATOM	10168	SD	MET	A	679	20.358	100.324	125.469	0.00	0.00		S
ATOM	10169	CE	MET	A	679	21.991	100.357	124.699	0.00	0.00		C
ATOM	10170	HN	MET	A	679	19.536	102.515	129.244	0.00	0.00		H
ATOM	10171	HCA	MET	A	679	20.054	104.314	127.250	0.00	0.00		H
ATOM	10172	HCB	MET	A	679	18.506	101.690	127.296	0.00	0.00		H
ATOM	10173	HCB	MET	A	679	18.639	102.646	125.821	0.00	0.00		H
ATOM	10174	HCE	MET	A	679	22.761	100.337	125.463	0.00	0.00		H
ATOM	10175	HCE	MET	A	679	22.109	99.481	124.065	0.00	0.00		H
ATOM	10176	HCE	MET	A	679	22.105	101.252	124.088	0.00	0.00		H
ATOM	10177	HCG	MET	A	679	21.103	102.570	125.918	0.00	0.00		H
ATOM	10178	HCG	MET	A	679	21.044	101.579	127.387	0.00	0.00		H
ATOM	10179	N	GLY	A	680	16.798	104.283	128.016	0.00	0.00		N
ATOM	10180	CA	GLY	A	680	15.610	105.101	127.981	0.00	0.00		C
ATOM	10181	C	GLY	A	680	15.782	106.512	128.415	0.00	0.00		C
ATOM	10182	O	GLY	A	680	15.290	107.443	127.720	0.00	0.00		O
ATOM	10183	HN	GLY	A	680	16.754	103.446	128.484	0.00	0.00		H
ATOM	10184	HCA	GLY	A	680	15.198	105.083	126.974	0.00	0.00		H
ATOM	10185	HCA	GLY	A	680	14.870	104.637	128.628	0.00	0.00		H
ATOM	10186	N	ALA	A	681	16.474	106.771	129.551	0.00	0.00		N
ATOM	10187	CA	ALA	A	681	16.851	108.082	130.016	0.00	0.00		C
ATOM	10188	C	ALA	A	681	17.752	108.830	129.084	0.00	0.00		C
ATOM	10189	O	ALA	A	681	17.429	109.974	128.663	0.00	0.00		O
ATOM	10190	CB	ALA	A	681	17.517	107.926	131.410	0.00	0.00		C
ATOM	10191	HN	ALA	A	681	16.722	106.009	130.087	0.00	0.00		H
ATOM	10192	HCA	ALA	A	681	15.934	108.663	130.146	0.00	0.00		H
ATOM	10193	HCB	ALA	A	681	16.823	107.469	132.116	0.00	0.00		H
ATOM	10194	HCB	ALA	A	681	18.407	107.297	131.352	0.00	0.00		H
ATOM	10195	HCB	ALA	A	681	17.813	108.900	131.804	0.00	0.00		H
ATOM	10196	N	LYS	A	682	18.922	108.268	128.694	0.00	0.00		N
ATOM	10197	CA	LYS	A	682	19.894	108.854	127.804	0.00	0.00		C
ATOM	10198	C	LYS	A	682	19.280	109.242	126.500	0.00	0.00		C
ATOM	10199	O	LYS	A	682	19.462	110.393	126.023	0.00	0.00		O
ATOM	10200	CB	LYS	A	682	21.047	107.821	127.633	0.00	0.00		C
ATOM	10201	CG	LYS	A	682	22.282	108.309	126.821	0.00	0.00		C
ATOM	10202	CD	LYS	A	682	23.278	109.162	127.650	0.00	0.00		C
ATOM	10203	CE	LYS	A	682	24.560	109.508	126.857	0.00	0.00		C
ATOM	10204	NZ	LYS	A	682	25.487	110.277	127.691	0.00	0.00		N
ATOM	10205	HN	LYS	A	682	19.116	107.391	129.035	0.00	0.00		H
ATOM	10206	HNZ	LYS	A	682	25.046	111.149	127.982	0.00	0.00		H
ATOM	10207	HNZ	LYS	A	682	25.735	109.734	128.519	0.00	0.00		H
ATOM	10208	HNZ	LYS	A	682	26.333	110.487	127.162	0.00	0.00		H
ATOM	10209	HCA	LYS	A	682	20.301	109.747	128.287	0.00	0.00		H
ATOM	10210	HCB	LYS	A	682	21.387	107.493	128.620	0.00	0.00		H
ATOM	10211	HCB	LYS	A	682	20.637	106.936	127.142	0.00	0.00		H
ATOM	10212	HCD	LYS	A	682	22.788	110.089	127.961	0.00	0.00		H
ATOM	10213	HCD	LYS	A	682	23.564	108.609	128.550	0.00	0.00		H
ATOM	10214	HCE	LYS	A	682	25.061	108.593	126.532	0.00	0.00		H
ATOM	10215	HCE	LYS	A	682	24.307	110.101	125.975	0.00	0.00		H
ATOM	10216	HCG	LYS	A	682	22.808	107.428	126.444	0.00	0.00		H
ATOM	10217	HCG	LYS	A	682	21.956	108.879	125.951	0.00	0.00		H
ATOM	10218	N	ALA	A	683	18.460	108.357	125.882	0.00	0.00		N
ATOM	10219	CA	ALA	A	683	17.653	108.621	124.738	0.00	0.00		C
ATOM	10220	C	ALA	A	683	16.771	109.790	124.950	0.00	0.00		C
ATOM	10221	O	ALA	A	683	16.913	110.753	124.168	0.00	0.00		O
ATOM	10222	CB	ALA	A	683	16.819	107.367	124.405	0.00	0.00		C
ATOM	10223	HN	ALA	A	683	18.381	107.478	126.252	0.00	0.00		H
ATOM	10224	HCA	ALA	A	683	18.317	108.810	123.890	0.00	0.00		H
ATOM	10225	HCB	ALA	A	683	16.181	107.100	125.248	0.00	0.00		H
ATOM	10226	HCB	ALA	A	683	16.183	107.542	123.536	0.00	0.00		H
ATOM	10227	HCB	ALA	A	683	17.482	106.528	124.188	0.00	0.00		H
ATOM	10228	N	MET	A	684	15.859	109.863	125.952	0.00	0.00		N
ATOM	10229	CA	MET	A	684	14.992	111.000	126.148	0.00	0.00		C
ATOM	10230	C	MET	A	684	15.694	112.313	126.299	0.00	0.00		C
ATOM	10231	O	MET	A	684	15.212	113.346	125.764	0.00	0.00		O
ATOM	10232	CB	MET	A	684	14.031	110.702	127.332	0.00	0.00		C
ATOM	10233	CG	MET	A	684	12.720	111.528	127.327	0.00	0.00		C
ATOM	10234	SD	MET	A	684	11.723	111.164	125.857	0.00	0.00		S
ATOM	10235	CE	MET	A	684	10.089	111.521	126.516	0.00	0.00		C
ATOM	10236	HN	MET	A	684	15.750	109.097	126.532	0.00	0.00		H
ATOM	10237	HCA	MET	A	684	14.400	111.061	125.231	0.00	0.00		H
ATOM	10238	HCB	MET	A	684	13.744	109.647	127.307	0.00	0.00		H

ATOM	10239	HC	B	MET	A	684	14.558	110.863	128.276	0.00	0.00	H
ATOM	10240	HCE		MET	A	684	9.991	112.591	126.697	0.00	0.00	H
ATOM	10241	HCE		MET	A	684	9.337	111.206	125.799	0.00	0.00	H
ATOM	10242	HCE		MET	A	684	9.925	110.959	127.432	0.00	0.00	H
ATOM	10243	HCG		MET	A	684	12.166	111.264	128.226	0.00	0.00	H
ATOM	10244	HCG		MET	A	684	12.931	112.598	127.359	0.00	0.00	H
ATOM	10245	N		ASN	A	685	16.864	112.388	126.982	0.00	0.00	N
ATOM	10246	CA		ASN	A	685	17.729	113.547	127.010	0.00	0.00	C
ATOM	10247	C		ASN	A	685	18.180	113.963	125.641	0.00	0.00	C
ATOM	10248	O		ASN	A	685	17.876	115.100	125.186	0.00	0.00	O
ATOM	10249	CB		ASN	A	685	18.905	113.248	127.989	0.00	0.00	C
ATOM	10250	CG		ASN	A	685	19.756	114.416	128.282	0.00	0.00	C
ATOM	10251	ND2		ASN	A	685	19.853	114.930	129.511	0.00	0.00	N
ATOM	10252	OD1		ASN	A	685	20.436	114.962	127.388	0.00	0.00	O
ATOM	10253	HN		ASN	A	685	17.120	111.598	127.475	0.00	0.00	H
ATOM	10254	HND2		ASN	A	685	19.357	114.541	130.245	0.00	0.00	H
ATOM	10255	HND2		ASN	A	685	20.429	115.693	129.661	0.00	0.00	H
ATOM	10256	HCA		ASN	A	685	17.161	114.376	127.440	0.00	0.00	H
ATOM	10257	HC	B	ASN	A	685	18.492	112.870	128.929	0.00	0.00	H
ATOM	10258	HC	B	ASN	A	685	19.545	112.464	127.583	0.00	0.00	H
ATOM	10259	N		TRP	A	686	18.887	113.096	124.875	0.00	0.00	N
ATOM	10260	CA		TRP	A	686	19.374	113.372	123.543	0.00	0.00	C
ATOM	10261	C		TRP	A	686	18.292	113.786	122.603	0.00	0.00	C
ATOM	10262	O		TRP	A	686	18.436	114.778	121.852	0.00	0.00	O
ATOM	10263	CB		TRP	A	686	20.102	112.095	123.046	0.00	0.00	C
ATOM	10264	CG		TRP	A	686	20.730	112.209	121.708	0.00	0.00	C
ATOM	10265	CD1		TRP	A	686	22.032	112.641	121.440	0.00	0.00	C
ATOM	10266	CD2		TRP	A	686	20.190	111.857	120.470	0.00	0.00	C
ATOM	10267	CE2		TRP	A	686	21.191	112.045	119.516	0.00	0.00	C
ATOM	10268	CE3		TRP	A	686	18.921	111.378	120.093	0.00	0.00	C
ATOM	10269	NE1		TRP	A	686	22.284	112.528	120.122	0.00	0.00	N
ATOM	10270	CZ2		TRP	A	686	20.977	111.735	118.164	0.00	0.00	C
ATOM	10271	CZ3		TRP	A	686	18.673	111.122	118.727	0.00	0.00	C
ATOM	10272	CH2		TRP	A	686	19.698	111.288	117.772	0.00	0.00	C
ATOM	10273	HN		TRP	A	686	19.073	112.227	125.252	0.00	0.00	H
ATOM	10274	HNE1		TRP	A	686	23.123	112.742	119.686	0.00	0.00	H
ATOM	10275	HCA		TRP	A	686	20.111	114.179	123.609	0.00	0.00	H
ATOM	10276	HC	B	TRP	A	686	20.884	111.838	123.766	0.00	0.00	H
ATOM	10277	HC	B	TRP	A	686	19.400	111.257	123.034	0.00	0.00	H
ATOM	10278	HCD1		TRP	A	686	22.701	112.971	122.139	0.00	0.00	H
ATOM	10279	HCE3		TRP	A	686	18.191	111.225	120.788	0.00	0.00	H
ATOM	10280	HCH2		TRP	A	686	19.503	111.091	116.789	0.00	0.00	H
ATOM	10281	HCZ2		TRP	A	686	21.728	111.841	117.481	0.00	0.00	H
ATOM	10282	HCZ3		TRP	A	686	17.747	110.818	118.419	0.00	0.00	H
ATOM	10283	N		MET	A	687	17.152	113.070	122.565	0.00	0.00	N
ATOM	10284	CA		MET	A	687	16.016	113.279	121.726	0.00	0.00	C
ATOM	10285	C		MET	A	687	15.341	114.576	122.022	0.00	0.00	C
ATOM	10286	O		MET	A	687	15.060	115.316	121.049	0.00	0.00	O
ATOM	10287	CB		MET	A	687	15.116	112.015	121.850	0.00	0.00	C
ATOM	10288	CG		MET	A	687	14.191	111.723	120.639	0.00	0.00	C
ATOM	10289	SD		MET	A	687	12.908	112.947	120.314	0.00	0.00	S
ATOM	10290	CE		MET	A	687	12.078	112.860	121.911	0.00	0.00	C
ATOM	10291	HN		MET	A	687	17.103	112.320	123.149	0.00	0.00	H
ATOM	10292	HCA		MET	A	687	16.387	113.300	120.698	0.00	0.00	H
ATOM	10293	HC	B	MET	A	687	15.759	111.137	121.921	0.00	0.00	H
ATOM	10294	HC	B	MET	A	687	14.548	112.050	122.781	0.00	0.00	H
ATOM	10295	HCE		MET	A	687	12.614	113.450	122.654	0.00	0.00	H
ATOM	10296	HCE		MET	A	687	11.086	113.272	121.796	0.00	0.00	H
ATOM	10297	HCE		MET	A	687	11.997	111.827	122.246	0.00	0.00	H
ATOM	10298	HCG		MET	A	687	14.797	111.635	119.734	0.00	0.00	H
ATOM	10299	HCG		MET	A	687	13.692	110.764	120.791	0.00	0.00	H
ATOM	10300	N		ALA	A	688	15.089	115.027	123.281	0.00	0.00	N
ATOM	10301	CA		ALA	A	688	14.658	116.377	123.574	0.00	0.00	C
ATOM	10302	C		ALA	A	688	15.568	117.421	123.006	0.00	0.00	C
ATOM	10303	O		ALA	A	688	15.091	118.377	122.336	0.00	0.00	O
ATOM	10304	CB		ALA	A	688	14.508	116.532	125.105	0.00	0.00	C
ATOM	10305	HN		ALA	A	688	15.212	114.434	124.032	0.00	0.00	H
ATOM	10306	HCA		ALA	A	688	13.662	116.512	123.139	0.00	0.00	H
ATOM	10307	HC	B	ALA	A	688	15.463	116.376	125.610	0.00	0.00	H
ATOM	10308	HC	B	ALA	A	688	14.138	117.529	125.354	0.00	0.00	H
ATOM	10309	HC	B	ALA	A	688	13.792	115.799	125.480	0.00	0.00	H
ATOM	10310	N		GLY	A	689	16.912	117.293	123.151	0.00	0.00	N
ATOM	10311	CA		GLY	A	689	17.885	118.122	122.481	0.00	0.00	C
ATOM	10312	C		GLY	A	689	17.717	118.200	121.005	0.00	0.00	C
ATOM	10313	O		GLY	A	689	17.629	119.314	120.427	0.00	0.00	O
ATOM	10314	HN		GLY	A	689	17.228	116.587	123.737	0.00	0.00	H
ATOM	10315	HCA		GLY	A	689	17.851	119.127	122.911	0.00	0.00	H
ATOM	10316	HCA		GLY	A	689	18.875	117.711	122.684	0.00	0.00	H
ATOM	10317	N		LYS	A	690	17.644	117.054	120.290	0.00	0.00	N
ATOM	10318	CA		LYS	A	690	17.383	116.962	118.878	0.00	0.00	C

ATOM	10319	C	LYS	A	690	16.097	117.581	118.448	0.00	0.00	
ATOM	10320	O	LYS	A	690	16.107	118.268	117.398	0.00	0.00	
ATOM	10321	CB	LYS	A	690	17.525	115.501	118.360	0.00	0.00	
ATOM	10322	CG	LYS	A	690	18.999	115.009	118.296	0.00	0.00	
ATOM	10323	CD	LYS	A	690	19.774	115.531	117.049	0.00	0.00	
ATOM	10324	CE	LYS	A	690	21.311	115.381	117.129	0.00	0.00	
ATOM	10325	NZ	LYS	A	690	21.877	116.159	118.235	0.00	0.00	
ATOM	10326	HN	LYS	A	690	17.827	116.253	120.781	0.00	0.00	
ATOM	10327	HNZ	LYS	A	690	21.509	117.094	118.216	0.00	0.00	
ATOM	10328	HNZ	LYS	A	690	21.627	115.723	119.123	0.00	0.00	
ATOM	10329	HNZ	LYS	A	690	22.892	116.196	118.152	0.00	0.00	
ATOM	10330	HCA	LYS	A	690	18.178	117.540	118.414	0.00	0.00	
ATOM	10331	HCB	LYS	A	690	16.952	114.843	119.013	0.00	0.00	
ATOM	10332	HCB	LYS	A	690	17.091	115.411	117.359	0.00	0.00	
ATOM	10333	HCD	LYS	A	690	19.424	114.988	116.169	0.00	0.00	
ATOM	10334	HCD	LYS	A	690	19.552	116.582	116.871	0.00	0.00	
ATOM	10335	HCE	LYS	A	690	21.585	114.335	117.254	0.00	0.00	
ATOM	10336	HCE	LYS	A	690	21.753	115.739	116.195	0.00	0.00	
ATOM	10337	HCG	LYS	A	690	19.508	115.293	119.220	0.00	0.00	
ATOM	10338	HCG	LYS	A	690	18.990	113.921	118.258	0.00	0.00	
ATOM	10339	N	ILE	A	691	14.943	117.462	119.153	0.00	0.00	
ATOM	10340	CA	ILE	A	691	13.752	118.250	118.908	0.00	0.00	
ATOM	10341	C	ILE	A	691	14.112	119.692	118.945	0.00	0.00	
ATOM	10342	O	ILE	A	691	13.909	120.376	117.913	0.00	0.00	
ATOM	10343	CB	ILE	A	691	12.547	117.935	119.871	0.00	0.00	
ATOM	10344	CG1	ILE	A	691	11.983	116.506	119.596	0.00	0.00	
ATOM	10345	CG2	ILE	A	691	11.396	118.986	119.754	0.00	0.00	
ATOM	10346	CD1	ILE	A	691	10.867	116.035	120.558	0.00	0.00	
ATOM	10347	HN	ILE	A	691	14.944	116.809	119.853	0.00	0.00	
ATOM	10348	HCA	ILE	A	691	13.416	118.015	117.891	0.00	0.00	
ATOM	10349	HCB	ILE	A	691	12.915	117.963	120.900	0.00	0.00	
ATOM	10350	HCD1	ILE	A	691	11.205	116.085	121.595	0.00	0.00	
ATOM	10351	HCD1	ILE	A	691	9.960	116.625	120.442	0.00	0.00	
ATOM	10352	HCD3	ILE	A	691	10.603	115.009	120.320	0.00	0.00	
ATOM	10353	HCG1	ILE	A	691	11.598	116.456	118.575	0.00	0.00	
ATOM	10354	HCG1	ILE	A	691	12.803	115.791	119.670	0.00	0.00	
ATOM	10355	HCG2	ILE	A	691	11.747	119.997	119.962	0.00	0.00	
ATOM	10356	HCG2	ILE	A	691	10.968	118.963	118.754	0.00	0.00	
ATOM	10357	HCG2	ILE	A	691	10.607	118.788	120.473	0.00	0.00	
ATOM	10358	N	LYS	A	692	14.662	120.253	120.051	0.00		

ATOM	10399	CB	SER	A	694	14.737	119.753	114.554	0.00	0.00		C
ATOM	10400	OG	SER	A	694	15.827	118.835	114.605	0.00	0.00		O
ATOM	10401	HN	SER	A	694	15.411	120.981	116.754	0.00	0.00		H
ATOM	10402	HCA	SER	A	694	15.869	121.463	113.911	0.00	0.00		H
ATOM	10403	HC	SER	A	694	14.001	119.474	115.313	0.00	0.00		H
ATOM	10404	HC	SER	A	694	14.265	119.656	113.576	0.00	0.00		H
ATOM	10405	HOG	SER	A	694	15.965	118.672	115.551	0.00	0.00		H
ATOM	10406	N	TYR	A	695	13.680	122.910	115.740	0.00	0.00		N
ATOM	10407	CA	TYR	A	695	12.550	123.800	115.788	0.00	0.00		C
ATOM	10408	C	TYR	A	695	12.830	125.049	115.032	0.00	0.00		C
ATOM	10409	O	TYR	A	695	13.810	125.749	115.382	0.00	0.00		O
ATOM	10410	CB	TYR	A	695	12.204	124.043	117.290	0.00	0.00		C
ATOM	10411	CG	TYR	A	695	10.918	124.760	117.518	0.00	0.00		C
ATOM	10412	CD1	TYR	A	695	10.833	126.162	117.347	0.00	0.00		C
ATOM	10413	CD2	TYR	A	695	9.760	124.061	117.936	0.00	0.00		C
ATOM	10414	CE1	TYR	A	695	9.628	126.847	117.588	0.00	0.00		C
ATOM	10415	CE2	TYR	A	695	8.553	124.745	118.174	0.00	0.00		C
ATOM	10416	CZ	TYR	A	695	8.488	126.139	118.008	0.00	0.00		C
ATOM	10417	OH	TYR	A	695	7.334	126.793	118.264	0.00	0.00		O
ATOM	10418	HN	TYR	A	695	14.230	122.885	116.531	0.00	0.00		H
ATOM	10419	HCA	TYR	A	695	11.687	123.311	115.334	0.00	0.00		H
ATOM	10420	HC	TYR	A	695	12.167	123.072	117.794	0.00	0.00		H
ATOM	10421	HC	TYR	A	695	13.011	124.601	117.774	0.00	0.00		H
ATOM	10422	HCD1	TYR	A	695	11.654	126.698	117.056	0.00	0.00		H
ATOM	10423	HCD2	TYR	A	695	9.788	123.049	118.078	0.00	0.00		H
ATOM	10424	HCE1	TYR	A	695	9.585	127.860	117.462	0.00	0.00		H
ATOM	10425	HCE2	TYR	A	695	7.723	124.228	118.475	0.00	0.00		H
ATOM	10426	HOH	TYR	A	695	7.290	127.770	118.175	0.00	0.00		H
ATOM	10427	N	ARG	A	696	12.054	125.417	113.982	0.00	0.00		N
ATOM	10428	CA	ARG	A	696	12.247	126.585	113.167	0.00	0.00		C
ATOM	10429	C	ARG	A	696	11.025	127.446	113.201	0.00	0.00		C
ATOM	10430	O	ARG	A	696	10.717	127.962	114.305	0.00	0.00		O
ATOM	10431	CB	ARG	A	696	12.732	126.099	111.766	0.00	0.00		C
ATOM	10432	CG	ARG	A	696	13.286	127.254	110.886	0.00	0.00		C
ATOM	10433	CD	ARG	A	696	13.800	126.820	109.484	0.00	0.00		C
ATOM	10434	NE	ARG	A	696	13.549	127.827	108.501	0.00	0.00		N
ATOM	10435	CZ	ARG	A	696	14.019	129.077	108.500	0.00	0.00		C
ATOM	10436	NH1	ARG	A	696	14.923	129.539	109.348	0.00	0.00		N
ATOM	10437	NH2	ARG	A	696	13.513	129.922	107.618	0.00	0.00		N
ATOM	10438	HN	ARG	A	696	11.318	124.851	113.744	0.00	0.00		H
ATOM	10439	HNE	ARG	A	696	12.937	127.602	107.787	0.00	0.00		H
ATOM	10440	HNH1	ARG	A	696	15.305	128.948	110.007	0.00	0.00		H
ATOM	10441	HNH1	ARG	A	696	15.201	130.461	109.302	0.00	0.00		H
ATOM	10442	HNH2	ARG	A	696	12.867	129.620	106.968	0.00	0.00		H
ATOM	10443	HNH2	ARG	A	696	13.810	130.840	107.614	0.00	0.00		H
ATOM	10444	HCA	ARG	A	696	13.049	127.209	113.575	0.00	0.00		H
ATOM	10445	HC	ARG	A	696	13.538	125.369	111.902	0.00	0.00		H
ATOM	10446	HC	ARG	A	696	11.914	125.589	111.249	0.00	0.00		H
ATOM	10447	HCD	ARG	A	696	14.867	126.581	109.525	0.00	0.00		H
ATOM	10448	HCD	ARG	A	696	13.275	125.917	109.159	0.00	0.00		H
ATOM	10449	HCG	ARG	A	696	12.502	127.998	110.763	0.00	0.00		H
ATOM	10450	HCG	ARG	A	696	14.107	127.741	111.418	0.00	0.00		H
ATOM	10451	N	ASN	A	697	10.262	127.700	112.102	0.00	0.00		N
ATOM	10452	CA	ASN	A	697	9.201	128.677	111.998	0.00	0.00		C
ATOM	10453	C	ASN	A	697	7.912	128.142	112.526	0.00	0.00		C
ATOM	10454	O	ASN	A	697	6.868	128.076	111.835	0.00	0.00		O
ATOM	10455	CB	ASN	A	697	9.098	129.206	110.533	0.00	0.00		C
ATOM	10456	CG	ASN	A	697	10.365	129.710	109.970	0.00	0.00		C
ATOM	10457	ND2	ASN	A	697	10.840	129.238	108.813	0.00	0.00		N
ATOM	10458	OD1	ASN	A	697	11.035	130.586	110.556	0.00	0.00		O
ATOM	10459	HN	ASN	A	697	10.477	127.200	111.301	0.00	0.00		H
ATOM	10460	HND2	ASN	A	697	10.324	128.588	108.315	0.00	0.00		H
ATOM	10461	HND2	ASN	A	697	11.692	129.514	108.487	0.00	0.00		H
ATOM	10462	HCA	ASN	A	697	9.454	129.541	112.623	0.00	0.00		H
ATOM	10463	HC	ASN	A	697	8.710	128.410	109.892	0.00	0.00		H
ATOM	10464	HC	ASN	A	697	8.382	130.031	110.503	0.00	0.00		H
ATOM	10465	N	GLY	A	698	7.912	127.704	113.800	0.00	0.00		N
ATOM	10466	CA	GLY	A	698	6.818	127.122	114.517	0.00	0.00		C
ATOM	10467	C	GLY	A	698	6.666	125.664	114.319	0.00	0.00		C
ATOM	10468	O	GLY	A	698	5.845	125.060	115.047	0.00	0.00		O
ATOM	10469	HN	GLY	A	698	8.781	127.755	114.198	0.00	0.00		H
ATOM	10470	HCA	GLY	A	698	6.996	127.304	115.577	0.00	0.00		H
ATOM	10471	HCA	GLY	A	698	5.877	127.611	114.254	0.00	0.00		H
ATOM	10472	N	ARG	A	699	7.381	125.003	113.377	0.00	0.00		N
ATOM	10473	CA	ARG	A	699	7.391	123.580	113.148	0.00	0.00		C
ATOM	10474	C	ARG	A	699	8.792	123.070	113.220	0.00	0.00		C
ATOM	10475	O	ARG	A	699	9.793	123.824	113.136	0.00	0.00		O
ATOM	10476	CB	ARG	A	699	6.658	123.247	111.798	0.00	0.00		C
ATOM	10477	CG	ARG	A	699	5.819	121.921	111.746	0.00	0.00		C
ATOM	10478	CD	ARG	A	699	6.576	120.653	111.275	0.00	0.00		C

ATOM	10479	NE	ARG	A	699	5.775	119.475	111.376	0.00	0.00	N
ATOM	10480	CZ	ARG	A	699	6.227	118.221	111.235	0.00	0.00	C
ATOM	10481	NH1	ARG	A	699	7.492	117.857	111.078	0.00	0.00	N
ATOM	10482	NH2	ARG	A	699	5.379	117.208	111.245	0.00	0.00	N
ATOM	10483	HN	ARG	A	699	7.952	125.547	112.815	0.00	0.00	H
ATOM	10484	HNE	ARG	A	699	4.824	119.583	111.514	0.00	0.00	H
ATOM	10485	HNH1	ARG	A	699	8.212	118.480	111.178	0.00	0.00	H
ATOM	10486	HNH1	ARG	A	699	7.663	116.924	110.902	0.00	0.00	H
ATOM	10487	HNH2	ARG	A	699	4.437	117.347	111.405	0.00	0.00	H
ATOM	10488	HNH2	ARG	A	699	5.729	116.337	111.060	0.00	0.00	H
ATOM	10489	HCA	ARG	A	699	6.847	123.092	113.962	0.00	0.00	H
ATOM	10490	HCB	ARG	A	699	5.946	124.056	111.603	0.00	0.00	H
ATOM	10491	HCB	ARG	A	699	7.370	123.270	110.968	0.00	0.00	H
ATOM	10492	HCD	ARG	A	699	6.908	120.784	110.241	0.00	0.00	H
ATOM	10493	HCD	ARG	A	699	7.444	120.514	111.895	0.00	0.00	H
ATOM	10494	HCG	ARG	A	699	5.368	121.732	112.723	0.00	0.00	H
ATOM	10495	HCG	ARG	A	699	4.993	122.069	111.043	0.00	0.00	H
ATOM	10496	N	ILE	A	700	8.956	121.749	113.410	0.00	0.00	N
ATOM	10497	CA	ILE	A	700	10.167	120.990	113.527	0.00	0.00	C
ATOM	10498	C	ILE	A	700	10.543	120.352	112.233	0.00	0.00	C
ATOM	10499	O	ILE	A	700	9.710	119.659	111.595	0.00	0.00	O
ATOM	10500	CB	ILE	A	700	10.016	119.963	114.703	0.00	0.00	C
ATOM	10501	CG1	ILE	A	700	8.733	119.079	114.564	0.00	0.00	C
ATOM	10502	CG2	ILE	A	700	10.069	120.707	116.071	0.00	0.00	C
ATOM	10503	CD1	ILE	A	700	8.555	118.019	115.658	0.00	0.00	C
ATOM	10504	HN	ILE	A	700	8.136	121.252	113.492	0.00	0.00	H
ATOM	10505	HCA	ILE	A	700	10.975	121.668	113.791	0.00	0.00	H
ATOM	10506	HCB	ILE	A	700	10.884	119.293	114.678	0.00	0.00	H
ATOM	10507	HCD1	ILE	A	700	9.443	117.391	115.754	0.00	0.00	H
ATOM	10508	HCD1	ILE	A	700	8.351	118.511	116.604	0.00	0.00	H
ATOM	10509	HCD1	ILE	A	700	7.696	117.401	115.405	0.00	0.00	H
ATOM	10510	HCG1	ILE	A	700	7.833	119.696	114.579	0.00	0.00	H
ATOM	10511	HCG1	ILE	A	700	8.759	118.549	113.612	0.00	0.00	H
ATOM	10512	HCG2	ILE	A	700	11.013	121.238	116.177	0.00	0.00	H
ATOM	10513	HCG2	ILE	A	700	9.245	121.416	116.159	0.00	0.00	H
ATOM	10514	HCG2	ILE	A	700	10.016	120.011	116.902	0.00	0.00	H
ATOM	10515	N	PHE	A	701	11.788	120.539	111.733	0.00	0.00	N
ATOM	10516	CA	PHE	A	701	12.263	120.004	110.481	0.00	0.00	C
ATOM	10517	C	PHE	A	701	13.557	119.301	110.690	0.00	0.00	C
ATOM	10518	O	PHE	A	701	14.633	119.791	110.265	0.00	0.00	O
ATOM	10519	CB	PHE	A	701	12.274	121.154	109.427	0.00	0.00	C
ATOM	10520	CG	PHE	A	701	12.434	120.671	108.026	0.00	0.00	C
ATOM	10521	CD1	PHE	A	701	11.399	119.932	107.401	0.00	0.00	C
ATOM	10522	CD2	PHE	A	701	13.607	120.946	107.285	0.00	0.00	C
ATOM	10523	CE1	PHE	A	701	11.538	119.469	106.080	0.00	0.00	C
ATOM	10524	CE2	PHE	A	701	13.744	120.490	105.960	0.00	0.00	C
ATOM	10525	CZ	PHE	A	701	12.713	119.747	105.359	0.00	0.00	C
ATOM	10526	HN	PHE	A	701	12.374	121.084	112.269	0.00	0.00	H
ATOM	10527	HCA	PHE	A	701	11.575	119.241	110.111	0.00	0.00	H
ATOM	10528	HCB	PHE	A	701	11.328	121.702	109.478	0.00	0.00	H
ATOM	10529	HCB	PHE	A	701	13.059	121.869	109.689	0.00	0.00	H
ATOM	10530	HCD1	PHE	A	701	10.532	119.730	107.905	0.00	0.00	H
ATOM	10531	HCD2	PHE	A	701	14.371	121.479	107.706	0.00	0.00	H
ATOM	10532	HCE1	PHE	A	701	10.785	118.932	105.643	0.00	0.00	H
ATOM	10533	HCE2	PHE	A	701	14.597	120.696	105.434	0.00	0.00	H
ATOM	10534	H CZ	PHE	A	701	12.816	119.410	104.399	0.00	0.00	H
ATOM	10535	N	ALA	A	702	13.561	118.095	111.314	0.00	0.00	N
ATOM	10536	CA	ALA	A	702	14.724	117.336	111.694	0.00	0.00	C
ATOM	10537	C	ALA	A	702	15.271	116.546	110.557	0.00	0.00	C
ATOM	10538	O	ALA	A	702	15.574	115.337	110.684	0.00	0.00	O
ATOM	10539	CB	ALA	A	702	14.325	116.470	112.918	0.00	0.00	C
ATOM	10540	HN	ALA	A	702	12.711	117.688	111.484	0.00	0.00	H
ATOM	10541	HCA	ALA	A	702	15.516	118.020	112.015	0.00	0.00	H
ATOM	10542	HCB	ALA	A	702	13.835	117.076	113.681	0.00	0.00	H
ATOM	10543	HCB	ALA	A	702	13.642	115.671	112.623	0.00	0.00	H
ATOM	10544	HCB	ALA	A	702	15.214	116.023	113.363	0.00	0.00	H
ATOM	10545	N	ASN	A	703	15.456	117.175	109.376	0.00	0.00	N
ATOM	10546	CA	ASN	A	703	15.848	116.586	108.123	0.00	0.00	C
ATOM	10547	C	ASN	A	703	17.326	116.376	108.052	0.00	0.00	C
ATOM	10548	O	ASN	A	703	18.036	116.908	107.168	0.00	0.00	O
ATOM	10549	CB	ASN	A	703	15.216	117.442	106.984	0.00	0.00	C
ATOM	10550	CG	ASN	A	703	15.173	116.755	105.679	0.00	0.00	C
ATOM	10551	ND2	ASN	A	703	14.064	116.156	105.232	0.00	0.00	N
ATOM	10552	OD1	ASN	A	703	16.174	116.697	104.936	0.00	0.00	O
ATOM	10553	HN	ASN	A	703	15.264	118.113	109.436	0.00	0.00	H
ATOM	10554	HND2	ASN	A	703	13.271	116.148	105.764	0.00	0.00	H
ATOM	10555	HND2	ASN	A	703	14.076	115.725	104.365	0.00	0.00	H
ATOM	10556	HCA	ASN	A	703	15.390	115.592	108.059	0.00	0.00	H
ATOM	10557	HCB	ASN	A	703	14.189	117.700	107.259	0.00	0.00	H
ATOM	10558	HCB	ASN	A	703	15.761	118.382	106.874	0.00	0.00	H

ATOM	10559	N	THR	A	704	17.883	115.573	108.986	0.00	0.00	N
ATOM	10560	CA	THR	A	704	19.253	115.127	109.058	0.00	0.00	C
ATOM	10561	C	THR	A	704	19.357	113.686	109.441	0.00	0.00	C
ATOM	10562	O	THR	A	704	18.669	113.303	110.421	0.00	0.00	O
ATOM	10563	CB	THR	A	704	20.135	115.988	110.018	0.00	0.00	C
ATOM	10564	CG2	THR	A	704	19.560	116.206	111.436	0.00	0.00	C
ATOM	10565	OG1	THR	A	704	21.430	115.388	110.172	0.00	0.00	O
ATOM	10566	HN	THR	A	704	17.258	115.312	109.661	0.00	0.00	H
ATOM	10567	HCA	THR	A	704	19.694	115.255	108.069	0.00	0.00	H
ATOM	10568	HC	THR	A	704	20.268	116.978	109.567	0.00	0.00	H
ATOM	10569	HCG2	THR	A	704	18.558	116.633	111.388	0.00	0.00	H
ATOM	10570	HCG2	THR	A	704	19.523	115.265	111.979	0.00	0.00	H
ATOM	10571	HCG2	THR	A	704	20.200	116.894	111.991	0.00	0.00	H
ATOM	10572	HOG1	THR	A	704	21.887	115.528	109.313	0.00	0.00	H
ATOM	10573	N	PRO	A	705	20.257	112.810	108.886	0.00	0.00	N
ATOM	10574	CA	PRO	A	705	20.624	111.558	109.506	0.00	0.00	C
ATOM	10575	C	PRO	A	705	20.886	111.622	110.941	0.00	0.00	C
ATOM	10576	O	PRO	A	705	20.488	110.705	111.653	0.00	0.00	O
ATOM	10577	CB	PRO	A	705	21.877	111.089	108.727	0.00	0.00	C
ATOM	10578	CG	PRO	A	705	21.694	111.722	107.345	0.00	0.00	C
ATOM	10579	CD	PRO	A	705	20.978	113.042	107.666	0.00	0.00	C
ATOM	10580	HCA	PRO	A	705	19.816	110.843	109.322	0.00	0.00	H
ATOM	10581	HC	PRO	A	705	22.801	111.469	109.180	0.00	0.00	H
ATOM	10582	HC	PRO	A	705	21.934	110.000	108.662	0.00	0.00	H
ATOM	10583	HCD	PRO	A	705	21.716	113.837	107.808	0.00	0.00	H
ATOM	10584	HCD	PRO	A	705	20.309	113.308	106.842	0.00	0.00	H
ATOM	10585	HCG	PRO	A	705	22.650	111.887	106.839	0.00	0.00	H
ATOM	10586	HCG	PRO	A	705	21.059	111.087	106.719	0.00	0.00	H
ATOM	10587	N	ASP	A	706	21.451	112.694	111.479	0.00	0.00	N
ATOM	10588	CA	ASP	A	706	21.839	112.822	112.856	0.00	0.00	C
ATOM	10589	C	ASP	A	706	20.673	112.834	113.782	0.00	0.00	C
ATOM	10590	O	ASP	A	706	20.898	112.792	115.014	0.00	0.00	O
ATOM	10591	CB	ASP	A	706	22.725	114.094	113.026	0.00	0.00	C
ATOM	10592	CG	ASP	A	706	23.957	114.135	112.217	0.00	0.00	C
ATOM	10593	OD1	ASP	A	706	24.309	113.208	111.457	0.00	0.00	O
ATOM	10594	OD2	ASP	A	706	24.708	115.130	112.282	0.00	0.00	O
ATOM	10595	HN	ASP	A	706	21.555	113.485	110.938	0.00	0.00	H
ATOM	10596	HCA	ASP	A	706	22.451	111.953	113.123	0.00	0.00	H
ATOM	10597	HC	ASP	A	706	22.135	114.980	112.784	0.00	0.00	H
ATOM	10598	HC	ASP	A	706	23.033	114.176	114.071	0.00	0.00	H
ATOM	10599	N	SER	A	707	19.396	112.852	113.325	0.00	0.00	N
ATOM	10600	CA	SER	A	707	18.216	112.734	114.132	0.00	0.00	C
ATOM	10601	C	SER	A	707	17.644	111.361	114.136	0.00	0.00	C
ATOM	10602	O	SER	A	707	16.689	111.146	114.917	0.00	0.00	O
ATOM	10603	CB	SER	A	707	17.192	113.752	113.574	0.00	0.00	C
ATOM	10604	OG	SER	A	707	16.737	113.303	112.298	0.00	0.00	O
ATOM	10605	HN	SER	A	707	19.247	112.943	112.375	0.00	0.00	H
ATOM	10606	HCA	SER	A	707	18.425	113.001	115.172	0.00	0.00	H
ATOM	10607	HC	SER	A	707	16.341	113.850	114.244	0.00	0.00	H
ATOM	10608	HC	SER	A	707	17.653	114.739	113.481	0.00	0.00	H
ATOM	10609	HOG	SER	A	707	16.370	114.067	111.831	0.00	0.00	H
ATOM	10610	N	GLY	A	708	18.091	110.369	113.324	0.00	0.00	N
ATOM	10611	CA	GLY	A	708	17.477	109.076	113.178	0.00	0.00	C
ATOM	10612	C	GLY	A	708	18.423	108.017	113.557	0.00	0.00	C
ATOM	10613	O	GLY	A	708	19.170	107.544	112.666	0.00	0.00	O
ATOM	10614	HN	GLY	A	708	18.868	110.539	112.781	0.00	0.00	H
ATOM	10615	HCA	GLY	A	708	16.563	108.966	113.765	0.00	0.00	H
ATOM	10616	HCA	GLY	A	708	17.202	108.957	112.129	0.00	0.00	H
ATOM	10617	N	CYS	A	709	18.538	107.636	114.853	0.00	0.00	N
ATOM	10618	CA	CYS	A	709	19.677	106.909	115.371	0.00	0.00	C
ATOM	10619	C	CYS	A	709	19.397	105.621	116.054	0.00	0.00	C
ATOM	10620	O	CYS	A	709	18.259	105.367	116.499	0.00	0.00	O
ATOM	10621	CB	CYS	A	709	20.470	107.862	116.311	0.00	0.00	C
ATOM	10622	SG	CYS	A	709	21.278	109.207	115.410	0.00	0.00	S
ATOM	10623	HN	CYS	A	709	17.843	107.933	115.455	0.00	0.00	H
ATOM	10624	HCA	CYS	A	709	20.341	106.635	114.553	0.00	0.00	H
ATOM	10625	HC	CYS	A	709	19.801	108.290	117.061	0.00	0.00	H
ATOM	10626	HC	CYS	A	709	21.261	107.321	116.835	0.00	0.00	H
ATOM	10627	HSG	CYS	A	709	20.120	109.607	114.821	0.00	0.00	H
ATOM	10628	N	VAL	A	710	20.433	104.767	116.235	0.00	0.00	N
ATOM	10629	CA	VAL	A	710	20.498	103.645	117.139	0.00	0.00	C
ATOM	10630	C	VAL	A	710	21.298	104.086	118.306	0.00	0.00	C
ATOM	10631	O	VAL	A	710	22.453	104.525	118.094	0.00	0.00	O
ATOM	10632	CB	VAL	A	710	21.125	102.365	116.477	0.00	0.00	C
ATOM	10633	CG1	VAL	A	710	21.639	101.300	117.496	0.00	0.00	C
ATOM	10634	CG2	VAL	A	710	20.123	101.670	115.521	0.00	0.00	C
ATOM	10635	HN	VAL	A	710	21.227	104.998	115.750	0.00	0.00	H
ATOM	10636	HCA	VAL	A	710	19.500	103.384	117.489	0.00	0.00	H
ATOM	10637	HC	VAL	A	710	21.986	102.686	115.883	0.00	0.00	H
ATOM	10638	HCG1	VAL	A	710	20.853	101.035	118.207	0.00	0.00	H

ATOM	10639	HCG1	VAL	A	710	21.961	100.393	116.985	0.00	0.00	H
ATOM	10640	HCG1	VAL	A	710	22.500	101.677	118.052	0.00	0.00	H
ATOM	10641	HCG2	VAL	A	710	19.643	102.404	114.880	0.00	0.00	H
ATOM	10642	HCG2	VAL	A	710	20.643	100.943	114.895	0.00	0.00	H
ATOM	10643	HCG2	VAL	A	710	19.349	101.145	116.083	0.00	0.00	H
ATOM	10644	N	LEU	A	711	20.818	103.927	119.563	0.00	0.00	N
ATOM	10645	CA	LEU	A	711	21.597	104.130	120.759	0.00	0.00	C
ATOM	10646	C	LEU	A	711	22.250	102.845	121.117	0.00	0.00	C
ATOM	10647	O	LEU	A	711	21.521	101.902	121.496	0.00	0.00	O
ATOM	10648	CB	LEU	A	711	20.709	104.702	121.900	0.00	0.00	C
ATOM	10649	CG	LEU	A	711	21.419	104.853	123.285	0.00	0.00	C
ATOM	10650	CD1	LEU	A	711	22.748	105.656	123.213	0.00	0.00	C
ATOM	10651	CD2	LEU	A	711	20.451	105.486	124.315	0.00	0.00	C
ATOM	10652	HN	LEU	A	711	19.927	103.567	119.631	0.00	0.00	H
ATOM	10653	HCA	LEU	A	711	22.373	104.874	120.564	0.00	0.00	H
ATOM	10654	HCB	LEU	A	711	20.342	105.679	121.581	0.00	0.00	H
ATOM	10655	HCB	LEU	A	711	19.837	104.052	122.023	0.00	0.00	H
ATOM	10656	HCD1	LEU	A	711	23.540	105.037	122.792	0.00	0.00	H
ATOM	10657	HCD1	LEU	A	711	22.633	106.536	122.584	0.00	0.00	H
ATOM	10658	HCD1	LEU	A	711	23.072	105.982	124.202	0.00	0.00	H
ATOM	10659	HCD2	LEU	A	711	20.189	106.505	124.029	0.00	0.00	H
ATOM	10660	HCD2	LEU	A	711	19.537	104.895	124.394	0.00	0.00	H
ATOM	10661	HCD2	LEU	A	711	20.924	105.508	125.295	0.00	0.00	H
ATOM	10662	HCG	LEU	A	711	21.660	103.853	123.659	0.00	0.00	H
ATOM	10663	N	GLY	A	712	23.588	102.672	121.007	0.00	0.00	N
ATOM	10664	CA	GLY	A	712	24.272	101.417	121.176	0.00	0.00	C
ATOM	10665	C	GLY	A	712	25.505	101.436	121.985	0.00	0.00	C
ATOM	10666	O	GLY	A	712	26.162	102.494	122.120	0.00	0.00	O
ATOM	10667	HN	GLY	A	712	24.098	103.443	120.755	0.00	0.00	H
ATOM	10668	HCA	GLY	A	712	23.606	100.669	121.610	0.00	0.00	H
ATOM	10669	HCA	GLY	A	712	24.552	101.067	120.182	0.00	0.00	H
ATOM	10670	N	MET	A	713	25.934	100.265	122.512	0.00	0.00	N
ATOM	10671	CA	MET	A	713	27.186	100.034	123.172	0.00	0.00	C
ATOM	10672	C	MET	A	713	28.264	99.843	122.170	0.00	0.00	C
ATOM	10673	O	MET	A	713	28.246	98.851	121.399	0.00	0.00	O
ATOM	10674	CB	MET	A	713	27.115	98.775	124.092	0.00	0.00	C
ATOM	10675	CG	MET	A	713	26.533	99.032	125.499	0.00	0.00	C
ATOM	10676	SD	MET	A	713	27.634	99.991	126.577	0.00	0.00	S
ATOM	10677	CE	MET	A	713	28.795	98.694	127.067	0.00	0.00	C
ATOM	10678	HN	MET	A	713	25.368	99.508	122.374	0.00	0.00	H
ATOM	10679	HCA	MET	A	713	27.429	100.902	123.793	0.00	0.00	H
ATOM	10680	HCB	MET	A	713	26.514	98.004	123.603	0.00	0.00	H
ATOM	10681	HCB	MET	A	713	28.114	98.354	124.225	0.00	0.00	H
ATOM	10682	HCE	MET	A	713	28.265	97.873	127.550	0.00	0.00	H
ATOM	10683	HCE	MET	A	713	29.344	98.318	126.205	0.00	0.00	H
ATOM	10684	HCE	MET	A	713	29.510	99.115	127.774	0.00	0.00	H
ATOM	10685	HCG	MET	A	713	25.596	99.579	125.393	0.00	0.00	H
ATOM	10686	HCG	MET	A	713	26.310	98.078	125.980	0.00	0.00	H
ATOM	10687	N	ARG	A	714	29.289	100.716	122.132	0.00	0.00	N
ATOM	10688	CA	ARG	A	714	30.502	100.527	121.402	0.00	0.00	C
ATOM	10689	C	ARG	A	714	31.590	100.582	122.405	0.00	0.00	C
ATOM	10690	O	ARG	A	714	32.083	101.679	122.771	0.00	0.00	O
ATOM	10691	CB	ARG	A	714	30.602	101.567	120.255	0.00	0.00	C
ATOM	10692	CG	ARG	A	714	29.474	101.457	119.183	0.00	0.00	C
ATOM	10693	CD	ARG	A	714	29.602	100.299	118.161	0.00	0.00	C
ATOM	10694	NE	ARG	A	714	29.267	99.004	118.669	0.00	0.00	N
ATOM	10695	CZ	ARG	A	714	29.200	97.905	117.905	0.00	0.00	C
ATOM	10696	NH1	ARG	A	714	29.196	97.935	116.579	0.00	0.00	N
ATOM	10697	NH2	ARG	A	714	29.150	96.695	118.430	0.00	0.00	N
ATOM	10698	HN	ARG	A	714	29.215	101.509	122.666	0.00	0.00	H
ATOM	10699	HNE	ARG	A	714	29.037	98.919	119.597	0.00	0.00	H
ATOM	10700	HNH1	ARG	A	714	29.224	98.783	116.122	0.00	0.00	H
ATOM	10701	HNH1	ARG	A	714	29.168	97.113	116.077	0.00	0.00	H
ATOM	10702	HNH2	ARG	A	714	29.359	96.553	119.353	0.00	0.00	H
ATOM	10703	HNH2	ARG	A	714	28.996	95.933	117.864	0.00	0.00	H
ATOM	10704	HCA	ARG	A	714	30.559	99.537	120.941	0.00	0.00	H
ATOM	10705	HCB	ARG	A	714	30.562	102.567	120.696	0.00	0.00	H
ATOM	10706	HCB	ARG	A	714	31.575	101.472	119.764	0.00	0.00	H
ATOM	10707	HCD	ARG	A	714	28.932	100.525	117.330	0.00	0.00	H
ATOM	10708	HCD	ARG	A	714	30.622	100.282	117.766	0.00	0.00	H
ATOM	10709	HCG	ARG	A	714	28.491	101.409	119.659	0.00	0.00	H
ATOM	10710	HCG	ARG	A	714	29.493	102.384	118.603	0.00	0.00	H
ATOM	10711	N	LYS	A	715	31.982	99.426	122.990	0.00	0.00	N
ATOM	10712	CA	LYS	A	715	33.071	99.258	123.898	0.00	0.00	C
ATOM	10713	C	LYS	A	715	32.767	99.930	125.189	0.00	0.00	C
ATOM	10714	O	LYS	A	715	31.989	99.365	125.993	0.00	0.00	O
ATOM	10715	CB	LYS	A	715	34.444	99.628	123.253	0.00	0.00	C
ATOM	10716	CG	LYS	A	715	34.778	98.789	121.989	0.00	0.00	C
ATOM	10717	CD	LYS	A	715	36.136	99.203	121.365	0.00	0.00	C
ATOM	10718	CE	LYS	A	715	36.625	98.234	120.258	0.00	0.00	C

ATOM	10719	NZ	LYS	A	715	38.088	98.259	120.191	0.00	0.00	N
ATOM	10720	HN	LYS	A	715	31.459	98.635	122.831	0.00	0.00	H
ATOM	10721	HNZ	LYS	A	715	38.412	99.191	119.934	0.00	0.00	H
ATOM	10722	HNZ	LYS	A	715	38.427	98.026	121.109	0.00	0.00	H
ATOM	10723	HNZ	LYS	A	715	38.423	97.575	119.514	0.00	0.00	H
ATOM	10724	HCA	LYS	A	715	33.109	98.186	124.108	0.00	0.00	H
ATOM	10725	HCB	LYS	A	715	34.461	100.686	122.984	0.00	0.00	H
ATOM	10726	HCB	LYS	A	715	35.227	99.464	124.000	0.00	0.00	H
ATOM	10727	HCD	LYS	A	715	36.053	100.210	120.946	0.00	0.00	H
ATOM	10728	HCD	LYS	A	715	36.878	99.248	122.163	0.00	0.00	H
ATOM	10729	HCE	LYS	A	715	36.326	97.207	120.478	0.00	0.00	H
ATOM	10730	HCE	LYS	A	715	36.205	98.517	119.290	0.00	0.00	H
ATOM	10731	HCG	LYS	A	715	34.811	97.734	122.277	0.00	0.00	H
ATOM	10732	HCG	LYS	A	715	33.993	98.912	121.238	0.00	0.00	H
ATOM	10733	N	ARG	A	716	33.270	101.154	125.471	0.00	0.00	N
ATOM	10734	CA	ARG	A	716	33.027	101.922	126.659	0.00	0.00	C
ATOM	10735	C	ARG	A	716	32.067	103.033	126.403	0.00	0.00	C
ATOM	10736	O	ARG	A	716	31.721	103.738	127.381	0.00	0.00	O
ATOM	10737	CB	ARG	A	716	34.406	102.435	127.197	0.00	0.00	C
ATOM	10738	CG	ARG	A	716	34.468	102.551	128.749	0.00	0.00	C
ATOM	10739	CD	ARG	A	716	35.756	103.235	129.275	0.00	0.00	C
ATOM	10740	NE	ARG	A	716	35.763	104.635	128.986	0.00	0.00	N
ATOM	10741	CZ	ARG	A	716	35.103	105.582	129.659	0.00	0.00	C
ATOM	10742	NH1	ARG	A	716	34.358	105.353	130.731	0.00	0.00	N
ATOM	10743	NH2	ARG	A	716	35.187	106.831	129.234	0.00	0.00	N
ATOM	10744	HN	ARG	A	716	33.830	101.558	124.792	0.00	0.00	H
ATOM	10745	HNE	ARG	A	716	36.261	104.929	128.212	0.00	0.00	H
ATOM	10746	HNH1	ARG	A	716	34.270	104.453	131.067	0.00	0.00	H
ATOM	10747	HNH1	ARG	A	716	33.901	106.082	131.165	0.00	0.00	H
ATOM	10748	HNH2	ARG	A	716	35.717	107.040	128.456	0.00	0.00	H
ATOM	10749	HNH2	ARG	A	716	34.715	107.531	129.700	0.00	0.00	H
ATOM	10750	HCA	ARG	A	716	32.567	101.288	127.424	0.00	0.00	H
ATOM	10751	HCB	ARG	A	716	35.205	101.752	126.893	0.00	0.00	H
ATOM	10752	HCB	ARG	A	716	34.634	103.404	126.744	0.00	0.00	H
ATOM	10753	HCD	ARG	A	716	35.850	103.068	130.353	0.00	0.00	H
ATOM	10754	HCD	ARG	A	716	36.630	102.777	128.805	0.00	0.00	H
ATOM	10755	HCG	ARG	A	716	33.599	103.101	129.117	0.00	0.00	H
ATOM	10756	HCG	ARG	A	716	34.419	101.546	129.178	0.00	0.00	H
ATOM	10757	N	ALA	A	717	31.564	103.301	125.169	0.00	0.00	N
ATOM	10758	CA	ALA	A	717	30.741	104.428	124.832	0.00	0.00	C
ATOM	10759	C	ALA	A	717	29.334	104.026	124.563	0.00	0.00	C
ATOM	10760	O	ALA	A	717	29.090	103.131	123.718	0.00	0.00	O
ATOM	10761	CB	ALA	A	717	31.377	105.133	123.609	0.00	0.00	C
ATOM	10762	HN	ALA	A	717	31.780	102.715	124.439	0.00	0.00	H
ATOM	10763	HCA	ALA	A	717	30.743	105.167	125.642	0.00	0.00	H
ATOM	10764	HCB	ALA	A	717	32.403	105.431	123.838	0.00	0.00	H
ATOM	10765	HCB	ALA	A	717	31.392	104.470	122.740	0.00	0.00	H
ATOM	10766	HCB	ALA	A	717	30.811	106.031	123.354	0.00	0.00	H
ATOM	10767	N	LEU	A	718	28.333	104.681	125.200	0.00	0.00	N
ATOM	10768	CA	LEU	A	718	26.925	104.552	124.950	0.00	0.00	C
ATOM	10769	C	LEU	A	718	26.600	105.615	123.954	0.00	0.00	C
ATOM	10770	O	LEU	A	718	26.555	106.812	124.329	0.00	0.00	O
ATOM	10771	CB	LEU	A	718	26.174	104.663	126.319	0.00	0.00	C
ATOM	10772	CG	LEU	A	718	24.763	103.995	126.377	0.00	0.00	C
ATOM	10773	CD1	LEU	A	718	24.858	102.448	126.440	0.00	0.00	C
ATOM	10774	CD2	LEU	A	718	23.954	104.502	127.601	0.00	0.00	C
ATOM	10775	HN	LEU	A	718	28.598	105.346	125.853	0.00	0.00	H
ATOM	10776	HCA	LEU	A	718	26.719	103.574	124.511	0.00	0.00	H
ATOM	10777	HCB	LEU	A	718	26.786	104.211	127.106	0.00	0.00	H
ATOM	10778	HCB	LEU	A	718	26.083	105.721	126.583	0.00	0.00	H
ATOM	10779	HCD1	LEU	A	718	25.502	102.132	127.263	0.00	0.00	H
ATOM	10780	HCD1	LEU	A	718	23.872	102.015	126.602	0.00	0.00	H
ATOM	10781	HCD1	LEU	A	718	25.253	102.047	125.507	0.00	0.00	H
ATOM	10782	HCD2	LEU	A	718	23.855	105.586	127.575	0.00	0.00	H
ATOM	10783	HCD2	LEU	A	718	22.949	104.074	127.598	0.00	0.00	H
ATOM	10784	HCD2	LEU	A	718	24.451	104.223	128.531	0.00	0.00	H
ATOM	10785	HCG	LEU	A	718	24.207	104.265	125.475	0.00	0.00	H
ATOM	10786	N	VAL	A	719	26.522	105.312	122.635	0.00	0.00	N
ATOM	10787	CA	VAL	A	719	26.653	106.250	121.540	0.00	0.00	C
ATOM	10788	C	VAL	A	719	25.545	106.171	120.550	0.00	0.00	C
ATOM	10789	O	VAL	A	719	25.005	105.071	120.286	0.00	0.00	O
ATOM	10790	CB	VAL	A	719	28.068	106.079	120.883	0.00	0.00	C
ATOM	10791	CG1	VAL	A	719	28.307	104.677	120.259	0.00	0.00	C
ATOM	10792	CG2	VAL	A	719	28.403	107.183	119.839	0.00	0.00	C
ATOM	10793	HN	VAL	A	719	26.442	104.381	122.421	0.00	0.00	H
ATOM	10794	HCA	VAL	A	719	26.626	107.268	121.942	0.00	0.00	H
ATOM	10795	HCB	VAL	A	719	28.803	106.192	121.688	0.00	0.00	H
ATOM	10796	HCG1	VAL	A	719	27.594	104.476	119.458	0.00	0.00	H
ATOM	10797	HCG1	VAL	A	719	29.316	104.616	119.848	0.00	0.00	H
ATOM	10798	HCG1	VAL	A	719	28.207	103.899	121.017	0.00	0.00	H



ATOM	10799	HCG2	VAL	A	719	27.786	107.077	118.945	0.00	0.00	H
ATOM	10800	HCG2	VAL	A	719	28.240	108.176	120.263	0.00	0.00	H
ATOM	10801	HCG2	VAL	A	719	29.451	107.115	119.539	0.00	0.00	H
ATOM	10802	N	PHE	A	720	25.172	107.300	119.902	0.00	0.00	N
ATOM	10803	CA	PHE	A	720	24.133	107.437	118.922	0.00	0.00	C
ATOM	10804	C	PHE	A	720	24.698	107.295	117.552	0.00	0.00	C
ATOM	10805	O	PHE	A	720	25.539	108.134	117.149	0.00	0.00	O
ATOM	10806	CB	PHE	A	720	23.425	108.812	119.107	0.00	0.00	C
ATOM	10807	CG	PHE	A	720	22.708	108.907	120.405	0.00	0.00	C
ATOM	10808	CD1	PHE	A	720	23.379	109.356	121.567	0.00	0.00	C
ATOM	10809	CD2	PHE	A	720	21.347	108.534	120.504	0.00	0.00	C
ATOM	10810	CE1	PHE	A	720	22.708	109.419	122.802	0.00	0.00	C
ATOM	10811	CE2	PHE	A	720	20.675	108.608	121.736	0.00	0.00	C
ATOM	10812	CZ	PHE	A	720	21.358	109.040	122.885	0.00	0.00	C
ATOM	10813	HN	PHE	A	720	25.673	108.101	120.114	0.00	0.00	H
ATOM	10814	HCA	PHE	A	720	23.378	106.663	119.076	0.00	0.00	H
ATOM	10815	HCB	PHE	A	720	24.155	109.623	119.031	0.00	0.00	H
ATOM	10816	HCB	PHE	A	720	22.714	108.966	118.292	0.00	0.00	H
ATOM	10817	HCD1	PHE	A	720	24.360	109.638	121.523	0.00	0.00	H
ATOM	10818	HCD2	PHE	A	720	20.838	108.207	119.679	0.00	0.00	H
ATOM	10819	HCE1	PHE	A	720	23.202	109.742	123.636	0.00	0.00	H
ATOM	10820	HCE2	PHE	A	720	19.690	108.348	121.796	0.00	0.00	H
ATOM	10821	HCZ	PHE	A	720	20.869	109.085	123.780	0.00	0.00	H
ATOM	10822	N	GLN	A	721	24.303	106.277	116.751	0.00	0.00	N
ATOM	10823	CA	GLN	A	721	24.752	106.027	115.402	0.00	0.00	C
ATOM	10824	C	GLN	A	721	23.678	106.290	114.429	0.00	0.00	C
ATOM	10825	O	GLN	A	721	22.654	105.633	114.597	0.00	0.00	O
ATOM	10826	CB	GLN	A	721	25.275	104.568	115.262	0.00	0.00	C
ATOM	10827	CG	GLN	A	721	26.534	104.260	116.122	0.00	0.00	C
ATOM	10828	CD	GLN	A	721	27.202	103.020	115.694	0.00	0.00	C
ATOM	10829	NE2	GLN	A	721	27.926	102.964	114.570	0.00	0.00	N
ATOM	10830	OE1	GLN	A	721	27.110	101.969	116.357	0.00	0.00	O
ATOM	10831	HN	GLN	A	721	23.674	105.669	117.139	0.00	0.00	H
ATOM	10832	HNE2	GLN	A	721	28.029	103.751	114.018	0.00	0.00	H
ATOM	10833	HNE2	GLN	A	721	28.344	102.128	114.320	0.00	0.00	H
ATOM	10834	HCA	GLN	A	721	25.607	106.667	115.187	0.00	0.00	H
ATOM	10835	HCB	GLN	A	721	24.483	103.869	115.546	0.00	0.00	H
ATOM	10836	HCB	GLN	A	721	25.511	104.391	114.207	0.00	0.00	H
ATOM	10837	HCG	GLN	A	721	27.257	105.076	116.059	0.00	0.00	H
ATOM	10838	HCG	GLN	A	721	26.232	104.167	117.169	0.00	0.00	H
ATOM	10839	N	PRO	A	722	23.746	107.138	113.394	0.00	0.00	N
ATOM	10840	CA	PRO	A	722	22.656	107.383	112.469	0.00	0.00	C
ATOM	10841	C	PRO	A	722	22.375	106.242	111.598	0.00	0.00	C
ATOM	10842	O	PRO	A	722	23.295	105.766	110.942	0.00	0.00	O
ATOM	10843	CB	PRO	A	722	23.071	108.659	111.703	0.00	0.00	C
ATOM	10844	CG	PRO	A	722	24.598	108.619	111.729	0.00	0.00	C
ATOM	10845	CD	PRO	A	722	24.905	107.924	113.064	0.00	0.00	C
ATOM	10846	HCA	PRO	A	722	21.757	107.634	113.028	0.00	0.00	H
ATOM	10847	HCB	PRO	A	722	22.679	108.696	110.684	0.00	0.00	H
ATOM	10848	HCB	PRO	A	722	22.735	109.546	112.247	0.00	0.00	H
ATOM	10849	HCD	PRO	A	722	25.799	107.304	112.947	0.00	0.00	H
ATOM	10850	HCD	PRO	A	722	25.079	108.675	113.842	0.00	0.00	H
ATOM	10851	HCG	PRO	A	722	24.964	108.017	110.895	0.00	0.00	H
ATOM	10852	HCG	PRO	A	722	25.037	109.620	111.672	0.00	0.00	H
ATOM	10853	N	VAL	A	723	21.151	105.738	111.519	0.00	0.00	N
ATOM	10854	CA	VAL	A	723	20.787	104.454	110.950	0.00	0.00	C
ATOM	10855	C	VAL	A	723	21.392	104.163	109.621	0.00	0.00	C
ATOM	10856	O	VAL	A	723	21.917	103.046	109.390	0.00	0.00	O
ATOM	10857	CB	VAL	A	723	19.238	104.204	110.908	0.00	0.00	C
ATOM	10858	CG1	VAL	A	723	18.627	104.037	112.322	0.00	0.00	C
ATOM	10859	CG2	VAL	A	723	18.440	105.262	110.104	0.00	0.00	C
ATOM	10860	HN	VAL	A	723	20.462	106.267	111.928	0.00	0.00	H
ATOM	10861	HCA	VAL	A	723	21.206	103.716	111.639	0.00	0.00	H
ATOM	10862	HCB	VAL	A	723	19.069	103.244	110.405	0.00	0.00	H
ATOM	10863	HCG1	VAL	A	723	18.732	104.947	112.912	0.00	0.00	H
ATOM	10864	HCG1	VAL	A	723	17.568	103.781	112.255	0.00	0.00	H
ATOM	10865	HCG1	VAL	A	723	19.128	103.226	112.842	0.00	0.00	H
ATOM	10866	HCG2	VAL	A	723	18.821	105.350	109.089	0.00	0.00	H
ATOM	10867	HCG2	VAL	A	723	17.392	104.968	110.035	0.00	0.00	H
ATOM	10868	HCG2	VAL	A	723	18.496	106.240	110.579	0.00	0.00	H
ATOM	10869	N	THR	A	724	21.427	105.126	108.677	0.00	0.00	N
ATOM	10870	CA	THR	A	724	21.987	104.998	107.363	0.00	0.00	C
ATOM	10871	C	THR	A	724	23.381	104.478	107.383	0.00	0.00	C
ATOM	10872	O	THR	A	724	23.700	103.544	106.604	0.00	0.00	O
ATOM	10873	CB	THR	A	724	21.923	106.360	106.608	0.00	0.00	C
ATOM	10874	CG2	THR	A	724	20.479	106.857	106.359	0.00	0.00	C
ATOM	10875	OG1	THR	A	724	22.612	107.370	107.342	0.00	0.00	O
ATOM	10876	HN	THR	A	724	21.049	105.985	108.921	0.00	0.00	H
ATOM	10877	HCA	THR	A	724	21.362	104.288	106.817	0.00	0.00	H
ATOM	10878	HCB	THR	A	724	22.412	106.250	105.633	0.00	0.00	H

ATOM	10879	HCG2	THR	A	724	19.906	106.107	105.810	0.00	0.00		H
ATOM	10880	HCG2	THR	A	724	19.973	107.065	107.303	0.00	0.00		H
ATOM	10881	HCG2	THR	A	724	20.496	107.775	105.769	0.00	0.00		H
ATOM	10882	HOG1	THR	A	724	22.555	108.177	106.785	0.00	0.00		H
ATOM	10883	N	GLU	A	725	24.265	104.907	108.316	0.00	0.00		N
ATOM	10884	CA	GLU	A	725	25.653	104.548	108.367	0.00	0.00		C
ATOM	10885	C	GLU	A	725	25.849	103.193	108.947	0.00	0.00		C
ATOM	10886	O	GLU	A	725	27.014	102.725	108.985	0.00	0.00		O
ATOM	10887	CB	GLU	A	725	26.449	105.652	109.128	0.00	0.00		C
ATOM	10888	CG	GLU	A	725	26.475	107.014	108.371	0.00	0.00		C
ATOM	10889	CD	GLU	A	725	27.334	108.030	109.003	0.00	0.00		C
ATOM	10890	OE1	GLU	A	725	28.556	107.830	109.168	0.00	0.00		O
ATOM	10891	OE2	GLU	A	725	26.883	109.139	109.359	0.00	0.00		O
ATOM	10892	HN	GLU	A	725	23.916	105.385	109.075	0.00	0.00		H
ATOM	10893	HCA	GLU	A	725	26.049	104.501	107.346	0.00	0.00		H
ATOM	10894	HCB	GLU	A	725	26.021	105.791	110.125	0.00	0.00		H
ATOM	10895	HCB	GLU	A	725	27.482	105.316	109.258	0.00	0.00		H
ATOM	10896	HCG	GLU	A	725	26.851	106.861	107.358	0.00	0.00		H
ATOM	10897	HCG	GLU	A	725	25.457	107.405	108.294	0.00	0.00		H
ATOM	10898	N	LEU	A	726	24.798	102.435	109.352	0.00	0.00		N
ATOM	10899	CA	LEU	A	726	24.867	101.057	109.718	0.00	0.00		C
ATOM	10900	C	LEU	A	726	24.468	100.200	108.570	0.00	0.00		C
ATOM	10901	O	LEU	A	726	24.682	98.979	108.719	0.00	0.00		O
ATOM	10902	CB	LEU	A	726	23.980	100.802	110.976	0.00	0.00		C
ATOM	10903	CG	LEU	A	726	24.544	101.364	112.320	0.00	0.00		C
ATOM	10904	CD1	LEU	A	726	23.402	101.563	113.352	0.00	0.00		C
ATOM	10905	CD2	LEU	A	726	25.631	100.434	112.922	0.00	0.00		C
ATOM	10906	HN	LEU	A	726	23.909	102.799	109.339	0.00	0.00		H
ATOM	10907	HCA	LEU	A	726	25.891	100.776	109.968	0.00	0.00		H
ATOM	10908	HCB	LEU	A	726	23.004	101.244	110.791	0.00	0.00		H
ATOM	10909	HCB	LEU	A	726	23.809	99.729	111.097	0.00	0.00		H
ATOM	10910	HCD1	LEU	A	726	22.815	100.650	113.455	0.00	0.00		H
ATOM	10911	HCD1	LEU	A	726	23.805	101.826	114.330	0.00	0.00		H
ATOM	10912	HCD1	LEU	A	726	22.738	102.368	113.034	0.00	0.00		H
ATOM	10913	HCD2	LEU	A	726	25.214	99.454	113.156	0.00	0.00		H
ATOM	10914	HCD2	LEU	A	726	26.455	100.296	112.227	0.00	0.00		H
ATOM	10915	HCD2	LEU	A	726	26.035	100.867	113.838	0.00	0.00		H
ATOM	10916	HCG	LEU	A	726	24.995	102.346	112.139	0.00	0.00		H
ATOM	10917	N	GLN	A	727	23.958	100.623	107.378	0.00	0.00		N
ATOM	10918	CA	GLN	A	727	23.546	99.710	106.325	0.00	0.00		C
ATOM	10919	C	GLN	A	727	24.650	98.853	105.884	0.00	0.00		C
ATOM	10920	O	GLN	A	727	24.577	97.629	105.945	0.00	0.00		O
ATOM	10921	CB	GLN	A	727	22.920	100.476	105.123	0.00	0.00		C
ATOM	10922	CG	GLN	A	727	21.552	101.130	105.458	0.00	0.00		C
ATOM	10923	CD	GLN	A	727	20.941	101.788	104.290	0.00	0.00		C
ATOM	10924	NE2	GLN	A	727	20.976	103.114	104.138	0.00	0.00		N
ATOM	10925	OE1	GLN	A	727	20.379	101.121	103.396	0.00	0.00		O
ATOM	10926	HN	GLN	A	727	23.867	101.569	107.212	0.00	0.00		H
ATOM	10927	HNE2	GLN	A	727	21.445	103.653	104.785	0.00	0.00		H
ATOM	10928	HNE2	GLN	A	727	20.545	103.518	103.371	0.00	0.00		H
ATOM	10929	HCA	GLN	A	727	22.760	99.068	106.734	0.00	0.00		H
ATOM	10930	HCB	GLN	A	727	23.617	101.247	104.779	0.00	0.00		H
ATOM	10931	HCB	GLN	A	727	22.765	99.774	104.296	0.00	0.00		H
ATOM	10932	HCG	GLN	A	727	20.853	100.375	105.820	0.00	0.00		H
ATOM	10933	HCG	GLN	A	727	21.685	101.856	106.259	0.00	0.00		H
ATOM	10934	N	ASN	A	728	25.783	99.427	105.534	0.00	0.00		N
ATOM	10935	CA	ASN	A	728	27.025	98.808	105.187	0.00	0.00		C
ATOM	10936	C	ASN	A	728	27.627	97.992	106.281	0.00	0.00		C
ATOM	10937	O	ASN	A	728	28.680	97.361	106.029	0.00	0.00		O
ATOM	10938	CB	ASN	A	728	27.977	99.947	104.693	0.00	0.00		C
ATOM	10939	CG	ASN	A	728	28.087	101.109	105.607	0.00	0.00		C
ATOM	10940	ND2	ASN	A	728	29.190	101.347	106.322	0.00	0.00		N
ATOM	10941	OD1	ASN	A	728	27.138	101.916	105.745	0.00	0.00		O
ATOM	10942	HN	ASN	A	728	25.847	100.383	105.587	0.00	0.00		H
ATOM	10943	HND2	ASN	A	728	29.959	100.763	106.248	0.00	0.00		H
ATOM	10944	HND2	ASN	A	728	29.203	102.106	106.922	0.00	0.00		H
ATOM	10945	HCA	ASN	A	728	26.844	98.130	104.347	0.00	0.00		H
ATOM	10946	HCB	ASN	A	728	28.972	99.535	104.506	0.00	0.00		H
ATOM	10947	HCB	ASN	A	728	27.613	100.322	103.734	0.00	0.00		H
ATOM	10948	N	GLN	A	729	27.054	97.887	107.505	0.00	0.00		N
ATOM	10949	CA	GLN	A	729	27.494	97.076	108.598	0.00	0.00		C
ATOM	10950	C	GLN	A	729	26.532	96.001	108.873	0.00	0.00		C
ATOM	10951	O	GLN	A	729	26.782	95.290	109.839	0.00	0.00		O
ATOM	10952	CB	GLN	A	729	27.737	98.006	109.834	0.00	0.00		C
ATOM	10953	CG	GLN	A	729	28.658	99.234	109.553	0.00	0.00		C
ATOM	10954	CD	GLN	A	729	28.977	100.019	110.762	0.00	0.00		C
ATOM	10955	NE2	GLN	A	729	28.601	101.294	110.922	0.00	0.00		N
ATOM	10956	OE1	GLN	A	729	29.629	99.512	111.699	0.00	0.00		O
ATOM	10957	HN	GLN	A	729	26.250	98.367	107.705	0.00	0.00		H
ATOM	10958	HNE2	GLN	A	729	28.089	101.747	110.254	0.00	0.00		H

ATOM	10959	HNE2	GLN	A	729	28.838	101.752	111.739	0.00	0.00		H
ATOM	10960	HCA	GLN	A	729	28.446	96.588	108.366	0.00	0.00		H
ATOM	10961	HCB	GLN	A	729	26.778	98.364	110.216	0.00	0.00		H
ATOM	10962	HCB	GLN	A	729	28.196	97.407	110.628	0.00	0.00		H
ATOM	10963	HCG	GLN	A	729	29.599	98.892	109.119	0.00	0.00		H
ATOM	10964	HCG	GLN	A	729	28.174	99.890	108.826	0.00	0.00		H
ATOM	10965	N	THR	A	730	25.448	95.752	108.139	0.00	0.00		N
ATOM	10966	CA	THR	A	730	24.519	94.647	108.342	0.00	0.00		C
ATOM	10967	C	THR	A	730	24.470	93.693	107.205	0.00	0.00		C
ATOM	10968	O	THR	A	730	24.796	94.035	106.044	0.00	0.00		O
ATOM	10969	CB	THR	A	730	23.054	95.069	108.747	0.00	0.00		C
ATOM	10970	CG2	THR	A	730	22.850	96.573	108.982	0.00	0.00		C
ATOM	10971	OG1	THR	A	730	22.058	94.699	107.790	0.00	0.00		O
ATOM	10972	HN	THR	A	730	25.236	96.356	107.417	0.00	0.00		H
ATOM	10973	HCA	THR	A	730	24.890	94.038	109.164	0.00	0.00		H
ATOM	10974	HCB	THR	A	730	22.789	94.549	109.673	0.00	0.00		H
ATOM	10975	HCG2	THR	A	730	23.038	97.113	108.059	0.00	0.00		H
ATOM	10976	HCG2	THR	A	730	21.827	96.772	109.283	0.00	0.00		H
ATOM	10977	HCG2	THR	A	730	23.521	96.930	109.764	0.00	0.00		H
ATOM	10978	HOG1	THR	A	730	21.205	95.024	108.149	0.00	0.00		H
ATOM	10979	N	ASP	A	731	23.962	92.467	107.468	0.00	0.00		N
ATOM	10980	CA	ASP	A	731	23.464	91.509	106.540	0.00	0.00		C
ATOM	10981	C	ASP	A	731	21.995	91.460	106.792	0.00	0.00		C
ATOM	10982	O	ASP	A	731	21.545	91.031	107.887	0.00	0.00		O
ATOM	10983	CB	ASP	A	731	24.184	90.149	106.749	0.00	0.00		C
ATOM	10984	CG	ASP	A	731	23.692	89.104	105.840	0.00	0.00		C
ATOM	10985	OD1	ASP	A	731	22.490	88.764	105.864	0.00	0.00		O
ATOM	10986	OD2	ASP	A	731	24.453	88.538	105.027	0.00	0.00		O
ATOM	10987	HN	ASP	A	731	23.827	92.249	108.388	0.00	0.00		H
ATOM	10988	HCA	ASP	A	731	23.652	91.835	105.510	0.00	0.00		H
ATOM	10989	HCB	ASP	A	731	25.257	90.285	106.595	0.00	0.00		H
ATOM	10990	HCB	ASP	A	731	24.035	89.802	107.770	0.00	0.00		H
ATOM	10991	N	PHE	A	732	21.167	91.922	105.830	0.00	0.00		N
ATOM	10992	CA	PHE	A	732	19.737	91.979	105.890	0.00	0.00		C
ATOM	10993	C	PHE	A	732	19.126	90.643	105.681	0.00	0.00		C
ATOM	10994	O	PHE	A	732	18.221	90.274	106.464	0.00	0.00		O
ATOM	10995	CB	PHE	A	732	19.227	93.010	104.840	0.00	0.00		C
ATOM	10996	CG	PHE	A	732	19.555	94.406	105.237	0.00	0.00		C
ATOM	10997	CD1	PHE	A	732	20.738	95.038	104.787	0.00	0.00		C
ATOM	10998	CD2	PHE	A	732	18.696	95.114	106.109	0.00	0.00		C
ATOM	10999	CE1	PHE	A	732	21.061	96.341	105.212	0.00	0.00		C
ATOM	11000	CE2	PHE	A	732	19.018	96.414	106.536	0.00	0.00		C
ATOM	11001	CZ	PHE	A	732	20.202	97.026	106.089	0.00	0.00		C
ATOM	11002	HN	PHE	A	732	21.588	92.243	105.019	0.00	0.00		H
ATOM	11003	HCA	PHE	A	732	19.439	92.334	106.883	0.00	0.00		H
ATOM	11004	HCB	PHE	A	732	19.653	92.784	103.858	0.00	0.00		H
ATOM	11005	HCB	PHE	A	732	18.141	92.921	104.732	0.00	0.00		H
ATOM	11006	HCD1	PHE	A	732	21.379	94.549	104.158	0.00	0.00		H
ATOM	11007	HCD2	PHE	A	732	17.830	94.684	106.444	0.00	0.00		H
ATOM	11008	HCE1	PHE	A	732	21.923	96.785	104.889	0.00	0.00		H
ATOM	11009	HCE2	PHE	A	732	18.390	96.909	107.172	0.00	0.00		H
ATOM	11010	HCZ	PHE	A	732	20.441	97.966	106.404	0.00	0.00		H
ATOM	11011	N	GLU	A	733	19.523	89.824	104.679	0.00	0.00		N
ATOM	11012	CA	GLU	A	733	18.953	88.536	104.385	0.00	0.00		C
ATOM	11013	C	GLU	A	733	18.923	87.613	105.558	0.00	0.00		C
ATOM	11014	O	GLU	A	733	17.905	86.903	105.734	0.00	0.00		O
ATOM	11015	CB	GLU	A	733	19.606	87.902	103.119	0.00	0.00		C
ATOM	11016	CG	GLU	A	733	21.142	87.681	103.194	0.00	0.00		C
ATOM	11017	CD	GLU	A	733	21.692	86.978	102.024	0.00	0.00		C
ATOM	11018	OE1	GLU	A	733	21.384	85.792	101.780	0.00	0.00		O
ATOM	11019	OE2	GLU	A	733	22.492	87.535	101.242	0.00	0.00		O
ATOM	11020	HN	GLU	A	733	20.249	90.136	104.118	0.00	0.00		H
ATOM	11021	HCA	GLU	A	733	17.909	88.730	104.112	0.00	0.00		H
ATOM	11022	HCB	GLU	A	733	19.116	86.943	102.923	0.00	0.00		H
ATOM	11023	HCB	GLU	A	733	19.396	88.550	102.262	0.00	0.00		H
ATOM	11024	HCG	GLU	A	733	21.643	88.646	103.293	0.00	0.00		H
ATOM	11025	HCG	GLU	A	733	21.385	87.087	104.072	0.00	0.00		H
ATOM	11026	N	HSE	A	734	19.935	87.590	106.459	0.00	0.00		N
ATOM	11027	CA	HSE	A	734	19.955	86.855	107.696	0.00	0.00		C
ATOM	11028	C	HSE	A	734	19.648	87.697	108.892	0.00	0.00		C
ATOM	11029	O	HSE	A	734	19.700	87.144	110.013	0.00	0.00		O
ATOM	11030	CB	HSE	A	734	21.347	86.160	107.802	0.00	0.00		C
ATOM	11031	CG	HSE	A	734	21.602	85.229	106.685	0.00	0.00		C
ATOM	11032	CD2	HSE	A	734	22.633	85.292	105.756	0.00	0.00		C
ATOM	11033	ND1	HSE	A	734	20.839	84.166	106.376	0.00	0.00		N
ATOM	11034	CE1	HSE	A	734	21.367	83.599	105.280	0.00	0.00		C
ATOM	11035	NE2	HSE	A	734	22.450	84.285	104.895	0.00	0.00		N
ATOM	11036	HN	HSE	A	734	20.735	88.076	106.245	0.00	0.00		H
ATOM	11037	HNE2	HSE	A	734	23.004	84.085	104.126	0.00	0.00		H
ATOM	11038	HCA	HSE	A	734	19.196	86.066	107.689	0.00	0.00		H

ATOM	11039	HC	B	HSE	A	734	22.134	86.916	107.837	0.00	0.00	H
ATOM	11040	HC	B	HSE	A	734	21.408	85.579	108.721	0.00	0.00	H
ATOM	11041	HCD	2	HSE	A	734	23.383	85.984	105.724	0.00	0.00	H
ATOM	11042	HCE	1	HSE	A	734	20.995	82.770	104.811	0.00	0.00	H
ATOM	11043	N		ARG	A	735	19.240	88.991	108.835	0.00	0.00	N
ATOM	11044	CA		ARG	A	735	18.914	89.855	109.947	0.00	0.00	C
ATOM	11045	C		ARG	A	735	19.967	89.947	111.015	0.00	0.00	C
ATOM	11046	O		ARG	A	735	19.649	89.738	112.214	0.00	0.00	O
ATOM	11047	CB		ARG	A	735	17.486	89.494	110.485	0.00	0.00	C
ATOM	11048	CG		ARG	A	735	16.325	89.660	109.461	0.00	0.00	C
ATOM	11049	CD		ARG	A	735	14.992	88.995	109.895	0.00	0.00	C
ATOM	11050	NE		ARG	A	735	14.400	89.569	111.066	0.00	0.00	N
ATOM	11051	CZ		ARG	A	735	14.488	89.096	112.312	0.00	0.00	C
ATOM	11052	NH	1	ARG	A	735	15.261	88.082	112.675	0.00	0.00	N
ATOM	11053	NH	2	ARG	A	735	13.758	89.638	113.271	0.00	0.00	N
ATOM	11054	HN		ARG	A	735	19.040	89.358	107.975	0.00	0.00	H
ATOM	11055	HNE		ARG	A	735	13.850	90.358	110.958	0.00	0.00	H
ATOM	11056	HNH	1	ARG	A	735	15.817	87.647	112.020	0.00	0.00	H
ATOM	11057	HNH	1	ARG	A	735	15.262	87.781	113.591	0.00	0.00	H
ATOM	11058	HNH	2	ARG	A	735	13.109	90.323	113.104	0.00	0.00	H
ATOM	11059	HNH	2	ARG	A	735	13.835	89.307	114.169	0.00	0.00	H
ATOM	11060	HCA		ARG	A	735	18.846	90.860	109.529	0.00	0.00	H
ATOM	11061	HC	B	ARG	A	735	17.510	88.462	110.840	0.00	0.00	H
ATOM	11062	HC	B	ARG	A	735	17.255	90.130	111.344	0.00	0.00	H
ATOM	11063	HCD		ARG	A	735	14.270	89.112	109.082	0.00	0.00	H
ATOM	11064	HCD		ARG	A	735	15.148	87.918	110.011	0.00	0.00	H
ATOM	11065	HCG		ARG	A	735	16.152	90.722	109.275	0.00	0.00	H
ATOM	11066	HCG		ARG	A	735	16.616	89.205	108.512	0.00	0.00	H
ATOM	11067	N		ILE	A	736	21.252	90.283	110.709	0.00	0.00	N
ATOM	11068	CA		ILE	A	736	22.358	90.333	111.658	0.00	0.00	C
ATOM	11069	C		ILE	A	736	23.361	91.421	111.399	0.00	0.00	C
ATOM	11070	O		ILE	A	736	23.532	91.779	110.209	0.00	0.00	O
ATOM	11071	CB		ILE	A	736	23.105	88.949	111.792	0.00	0.00	C
ATOM	11072	CG	1	ILE	A	736	23.740	88.461	110.450	0.00	0.00	C
ATOM	11073	CG	2	ILE	A	736	22.202	87.861	112.432	0.00	0.00	C
ATOM	11074	CD	1	ILE	A	736	24.551	87.144	110.538	0.00	0.00	C
ATOM	11075	HN		ILE	A	736	21.420	90.492	109.786	0.00	0.00	H
ATOM	11076	HCA		ILE	A	736	21.927	90.569	112.632	0.00	0.00	H
ATOM	11077	HC	B	ILE	A	736	23.935	89.085	112.495	0.00	0.00	H
ATOM	11078	HCD	1	ILE	A	736	25.292	87.205	111.339	0.00	0.00	H
ATOM	11079	HCD	1	ILE	A	736	23.894	86.294	110.728	0.00	0.00	H
ATOM	11080	HCD	1	ILE	A	736	25.072	86.965	109.596	0.00	0.00	H
ATOM	11081	HCG	1	ILE	A	736	22.955	88.341	109.700	0.00	0.00	H
ATOM	11082	HCG	1	ILE	A	736	24.428	89.229	110.092	0.00	0.00	H
ATOM	11083	HCG	2	ILE	A	736	21.664	88.259	113.289	0.00	0.00	H
ATOM	11084	HCG	2	ILE	A	736	21.476	87.496	111.714	0.00	0.00	H
ATOM	11085	HCG	2	ILE	A	736	22.802	87.017	112.776	0.00	0.00	H
ATOM	11086	N		PRO	A	737	24.153	91.998	112.365	0.00	0.00	N
ATOM	11087	CA		PRO	A	737	25.336	92.770	112.068	0.00	0.00	C
ATOM	11088	C		PRO	A	737	26.435	91.997	111.485	0.00	0.00	C
ATOM	11089	O		PRO	A	737	26.612	90.833	111.820	0.00	0.00	O
ATOM	11090	CB		PRO	A	737	25.770	93.431	113.402	0.00	0.00	C
ATOM	11091	CG		PRO	A	737	24.961	92.730	114.503	0.00	0.00	C
ATOM	11092	CD		PRO	A	737	23.897	91.900	113.768	0.00	0.00	C
ATOM	11093	HCA		PRO	A	737	25.055	93.572	111.383	0.00	0.00	H
ATOM	11094	HC	B	PRO	A	737	26.844	93.342	113.601	0.00	0.00	H
ATOM	11095	HC	B	PRO	A	737	25.535	94.495	113.375	0.00	0.00	H
ATOM	11096	HCD		PRO	A	737	23.928	90.863	114.113	0.00	0.00	H
ATOM	11097	HCD		PRO	A	737	22.915	92.321	113.978	0.00	0.00	H
ATOM	11098	HCG		PRO	A	737	25.602	92.074	115.091	0.00	0.00	H
ATOM	11099	HCG		PRO	A	737	24.503	93.453	115.183	0.00	0.00	H
ATOM	11100	N		LYS	A	738	27.288	92.596	110.674	0.00	0.00	N
ATOM	11101	CA		LYS	A	738	28.532	92.069	110.180	0.00	0.00	C
ATOM	11102	C		LYS	A	738	29.619	92.448	111.124	0.00	0.00	C
ATOM	11103	O		LYS	A	738	29.762	93.656	111.429	0.00	0.00	O
ATOM	11104	CB		LYS	A	738	28.816	92.625	108.754	0.00	0.00	C
ATOM	11105	CG		LYS	A	738	27.809	92.123	107.683	0.00	0.00	C
ATOM	11106	CD		LYS	A	738	27.911	92.861	106.318	0.00	0.00	C
ATOM	11107	CE		LYS	A	738	29.249	92.696	105.558	0.00	0.00	C
ATOM	11108	NZ		LYS	A	738	29.515	91.292	105.233	0.00	0.00	N
ATOM	11109	HN		LYS	A	738	27.098	93.500	110.432	0.00	0.00	H
ATOM	11110	HNZ		LYS	A	738	29.614	90.753	106.092	0.00	0.00	H
ATOM	11111	HNZ		LYS	A	738	28.742	90.914	104.685	0.00	0.00	H
ATOM	11112	HNZ		LYS	A	738	30.376	91.221	104.691	0.00	0.00	H
ATOM	11113	HCA		LYS	A	738	28.484	90.976	110.106	0.00	0.00	H
ATOM	11114	HC	B	LYS	A	738	28.802	93.718	108.784	0.00	0.00	H
ATOM	11115	HC	B	LYS	A	738	29.822	92.317	108.454	0.00	0.00	H
ATOM	11116	HCD		LYS	A	738	27.106	92.501	105.672	0.00	0.00	H
ATOM	11117	HCD		LYS	A	738	27.737	93.929	106.481	0.00	0.00	H
ATOM	11118	HCE		LYS	A	738	29.201	93.261	104.624	0.00	0.00	H

ATOM	11119	HCE	LYS	A	738	30.077	93.093	106.148	0.00	0.00	H
ATOM	11120	HCG	LYS	A	738	27.939	91.048	107.535	0.00	0.00	H
ATOM	11121	HCG	LYS	A	738	26.795	92.270	108.061	0.00	0.00	H
ATOM	11122	N	GLU	A	739	30.436	91.495	111.630	0.00	0.00	N
ATOM	11123	CA	GLU	A	739	31.476	91.653	112.612	0.00	0.00	C
ATOM	11124	C	GLU	A	739	30.890	91.810	113.973	0.00	0.00	C
ATOM	11125	O	GLU	A	739	30.333	92.890	114.283	0.00	0.00	O
ATOM	11126	CB	GLU	A	739	32.546	92.749	112.291	0.00	0.00	C
ATOM	11127	CG	GLU	A	739	33.130	92.713	110.849	0.00	0.00	C
ATOM	11128	CD	GLU	A	739	33.786	91.446	110.491	0.00	0.00	C
ATOM	11129	OE1	GLU	A	739	34.796	91.046	111.108	0.00	0.00	O
ATOM	11130	OE2	GLU	A	739	33.356	90.734	109.559	0.00	0.00	O
ATOM	11131	HN	GLU	A	739	30.275	90.592	111.316	0.00	0.00	H
ATOM	11132	HCA	GLU	A	739	32.013	90.700	112.600	0.00	0.00	H
ATOM	11133	HCB	GLU	A	739	32.114	93.740	112.452	0.00	0.00	H
ATOM	11134	HCB	GLU	A	739	33.371	92.650	113.004	0.00	0.00	H
ATOM	11135	HCG	GLU	A	739	32.334	92.924	110.132	0.00	0.00	H
ATOM	11136	HCG	GLU	A	739	33.871	93.509	110.749	0.00	0.00	H
ATOM	11137	N	GLN	A	740	30.932	90.787	114.863	0.00	0.00	N
ATOM	11138	CA	GLN	A	740	30.399	90.800	116.198	0.00	0.00	C
ATOM	11139	C	GLN	A	740	31.432	90.433	117.169	0.00	0.00	C
ATOM	11140	O	GLN	A	740	31.962	89.328	117.101	0.00	0.00	O
ATOM	11141	CB	GLN	A	740	29.171	89.855	116.311	0.00	0.00	C
ATOM	11142	CG	GLN	A	740	28.000	90.160	115.335	0.00	0.00	C
ATOM	11143	CD	GLN	A	740	26.763	89.428	115.685	0.00	0.00	C
ATOM	11144	NE2	GLN	A	740	26.108	89.645	116.832	0.00	0.00	N
ATOM	11145	OE1	GLN	A	740	26.262	88.570	114.929	0.00	0.00	O
ATOM	11146	HN	GLN	A	740	31.354	89.967	114.569	0.00	0.00	H
ATOM	11147	HNE2	GLN	A	740	26.401	90.322	117.458	0.00	0.00	H
ATOM	11148	HNE2	GLN	A	740	25.331	89.113	117.008	0.00	0.00	H
ATOM	11149	HCA	GLN	A	740	30.035	91.803	116.449	0.00	0.00	H
ATOM	11150	HCB	GLN	A	740	29.478	88.813	116.176	0.00	0.00	H
ATOM	11151	HCB	GLN	A	740	28.800	89.974	117.329	0.00	0.00	H
ATOM	11152	HCG	GLN	A	740	27.786	91.229	115.346	0.00	0.00	H
ATOM	11153	HCG	GLN	A	740	28.300	89.892	114.319	0.00	0.00	H
ATOM	11154	N	TRP	A	741	31.764	91.283	118.128	0.00	0.00	N
ATOM	11155	CA	TRP	A	741	32.795	91.138	119.125	0.00	0.00	C
ATOM	11156	C	TRP	A	741	32.929	89.767	119.695	0.00	0.00	C
ATOM	11157	O	TRP	A	741	34.042	89.188	119.688	0.00	0.00	O
ATOM	11158	CB	TRP	A	741	32.595	92.223	120.231	0.00	0.00	C
ATOM	11159	CG	TRP	A	741	31.427	92.005	121.121	0.00	0.00	C
ATOM	11160	CD1	TRP	A	741	30.130	92.495	120.945	0.00	0.00	C
ATOM	11161	CD2	TRP	A	741	31.387	91.267	122.306	0.00	0.00	C
ATOM	11162	CE2	TRP	A	741	30.075	91.308	122.776	0.00	0.00	C
ATOM	11163	CE3	TRP	A	741	32.383	90.565	123.012	0.00	0.00	C
ATOM	11164	NE1	TRP	A	741	29.348	92.078	121.960	0.00	0.00	N
ATOM	11165	CZ2	TRP	A	741	29.698	90.639	123.950	0.00	0.00	C
ATOM	11166	CZ3	TRP	A	741	32.018	89.887	124.193	0.00	0.00	C
ATOM	11167	CH2	TRP	A	741	30.685	89.923	124.660	0.00	0.00	C
ATOM	11168	HN	TRP	A	741	31.285	92.125	118.132	0.00	0.00	H
ATOM	11169	HNE1	TRP	A	741	28.435	92.333	122.122	0.00	0.00	H
ATOM	11170	HCA	TRP	A	741	33.737	91.380	118.621	0.00	0.00	H
ATOM	11171	HCB	TRP	A	741	33.497	92.272	120.846	0.00	0.00	H
ATOM	11172	HCB	TRP	A	741	32.498	93.205	119.760	0.00	0.00	H
ATOM	11173	HCD1	TRP	A	741	29.827	93.094	120.175	0.00	0.00	H
ATOM	11174	HCE3	TRP	A	741	33.349	90.541	122.678	0.00	0.00	H
ATOM	11175	HCH2	TRP	A	741	30.435	89.431	125.520	0.00	0.00	H
ATOM	11176	HCZ2	TRP	A	741	28.732	90.675	124.278	0.00	0.00	H
ATOM	11177	HCZ3	TRP	A	741	32.726	89.367	124.713	0.00	0.00	H
ATOM	11178	N	TRP	A	742	31.827	89.137	120.163	0.00	0.00	N
ATOM	11179	CA	TRP	A	742	31.784	87.845	120.783	0.00	0.00	C
ATOM	11180	C	TRP	A	742	32.360	86.747	119.962	0.00	0.00	C
ATOM	11181	O	TRP	A	742	32.719	85.701	120.554	0.00	0.00	O
ATOM	11182	CB	TRP	A	742	30.333	87.551	121.265	0.00	0.00	C
ATOM	11183	CG	TRP	A	742	29.350	87.473	120.161	0.00	0.00	C
ATOM	11184	CD1	TRP	A	742	28.531	88.506	119.696	0.00	0.00	C
ATOM	11185	CD2	TRP	A	742	29.068	86.376	119.350	0.00	0.00	C
ATOM	11186	CE2	TRP	A	742	28.111	86.783	118.424	0.00	0.00	C
ATOM	11187	CE3	TRP	A	742	29.574	85.064	119.331	0.00	0.00	C
ATOM	11188	NE1	TRP	A	742	27.798	88.061	118.657	0.00	0.00	N
ATOM	11189	CZ2	TRP	A	742	27.636	85.916	117.430	0.00	0.00	C
ATOM	11190	CZ3	TRP	A	742	29.122	84.187	118.326	0.00	0.00	C
ATOM	11191	CH2	TRP	A	742	28.160	84.608	117.383	0.00	0.00	C
ATOM	11192	HN	TRP	A	742	30.994	89.626	120.101	0.00	0.00	H
ATOM	11193	HNE1	TRP	A	742	27.190	88.572	118.126	0.00	0.00	H
ATOM	11194	HCA	TRP	A	742	32.405	87.920	121.681	0.00	0.00	H
ATOM	11195	HCB	TRP	A	742	30.311	86.616	121.832	0.00	0.00	H
ATOM	11196	HCB	TRP	A	742	30.023	88.337	121.957	0.00	0.00	H
ATOM	11197	HCD1	TRP	A	742	28.498	89.455	120.078	0.00	0.00	H
ATOM	11198	HCE3	TRP	A	742	30.258	84.752	120.021	0.00	0.00	H

ATOM	11199	HCH2	TRP	A	742	27.842	83.958	116.664	0.00	0.00		H
ATOM	11200	HCZ2	TRP	A	742	26.936	86.230	116.757	0.00	0.00		H
ATOM	11201	HCZ3	TRP	A	742	29.498	83.243	118.273	0.00	0.00		H
ATOM	11202	N	LEU	A	743	32.591	86.862	118.627	0.00	0.00		N
ATOM	11203	CA	LEU	A	743	33.289	85.863	117.861	0.00	0.00		C
ATOM	11204	C	LEU	A	743	34.679	85.658	118.368	0.00	0.00		C
ATOM	11205	O	LEU	A	743	35.216	84.525	118.276	0.00	0.00		O
ATOM	11206	CB	LEU	A	743	33.258	86.209	116.344	0.00	0.00		C
ATOM	11207	CG	LEU	A	743	31.837	86.154	115.692	0.00	0.00		C
ATOM	11208	CD1	LEU	A	743	31.813	86.915	114.339	0.00	0.00		C
ATOM	11209	CD2	LEU	A	743	31.333	84.701	115.473	0.00	0.00		C
ATOM	11210	HN	LEU	A	743	32.335	87.673	118.174	0.00	0.00		H
ATOM	11211	HCA	LEU	A	743	32.754	84.924	118.007	0.00	0.00		H
ATOM	11212	HCB	LEU	A	743	33.677	87.213	116.227	0.00	0.00		H
ATOM	11213	HCB	LEU	A	743	33.915	85.524	115.800	0.00	0.00		H
ATOM	11214	HCD1	LEU	A	743	32.120	87.952	114.482	0.00	0.00		H
ATOM	11215	HCD1	LEU	A	743	32.491	86.448	113.622	0.00	0.00		H
ATOM	11216	HCD1	LEU	A	743	30.805	86.915	113.920	0.00	0.00		H
ATOM	11217	HCD2	LEU	A	743	31.960	84.174	114.751	0.00	0.00		H
ATOM	11218	HCD2	LEU	A	743	31.330	84.135	116.403	0.00	0.00		H
ATOM	11219	HCD2	LEU	A	743	30.308	84.719	115.101	0.00	0.00		H
ATOM	11220	HCG	LEU	A	743	31.125	86.657	116.357	0.00	0.00		H
ATOM	11221	N	LYS	A	744	35.313	86.640	119.057	0.00	0.00		N
ATOM	11222	CA	LYS	A	744	36.585	86.517	119.709	0.00	0.00		C
ATOM	11223	C	LYS	A	744	36.591	85.464	120.769	0.00	0.00		C
ATOM	11224	O	LYS	A	744	37.699	85.052	121.187	0.00	0.00		O
ATOM	11225	CB	LYS	A	744	36.948	87.934	120.250	0.00	0.00		C
ATOM	11226	CG	LYS	A	744	38.410	88.118	120.741	0.00	0.00		C
ATOM	11227	CD	LYS	A	744	38.706	89.598	121.110	0.00	0.00		C
ATOM	11228	CE	LYS	A	744	40.156	89.823	121.594	0.00	0.00		C
ATOM	11229	NZ	LYS	A	744	40.372	91.239	121.908	0.00	0.00		N
ATOM	11230	HN	LYS	A	744	34.854	87.474	119.185	0.00	0.00		H
ATOM	11231	HNZ	LYS	A	744	39.728	91.529	122.644	0.00	0.00		H
ATOM	11232	HNZ	LYS	A	744	41.331	91.380	122.224	0.00	0.00		H
ATOM	11233	HNZ	LYS	A	744	40.206	91.804	121.075	0.00	0.00		H
ATOM	11234	HCA	LYS	A	744	37.319	86.236	118.947	0.00	0.00		H
ATOM	11235	HCB	LYS	A	744	36.782	88.657	119.445	0.00	0.00		H
ATOM	11236	HCB	LYS	A	744	36.265	88.188	121.067	0.00	0.00		H
ATOM	11237	HCD	LYS	A	744	38.529	90.229	120.234	0.00	0.00		H
ATOM	11238	HCD	LYS	A	744	38.017	89.913	121.900	0.00	0.00		H
ATOM	11239	HCE	LYS	A	744	40.351	89.229	122.490	0.00	0.00		H
ATOM	11240	HCE	LYS	A	744	40.862	89.525	120.815	0.00	0.00		H
ATOM	11241	HCG	LYS	A	744	38.582	87.491	121.620	0.00	0.00		H
ATOM	11242	HCG	LYS	A	744	39.097	87.798	119.952	0.00	0.00		H
ATOM	11243	N	LEU	A	745	35.444	84.913	121.247	0.00	0.00		N
ATOM	11244	CA	LEU	A	745	35.356	83.881	122.240	0.00	0.00		C
ATOM	11245	C	LEU	A	745	35.247	82.510	121.661	0.00	0.00		C
ATOM	11246	O	LEU	A	745	35.289	81.526	122.443	0.00	0.00		O
ATOM	11247	CB	LEU	A	745	34.157	84.204	123.183	0.00	0.00		C
ATOM	11248	CG	LEU	A	745	34.097	85.663	123.746	0.00	0.00		C
ATOM	11249	CD1	LEU	A	745	32.843	85.839	124.639	0.00	0.00		C
ATOM	11250	CD2	LEU	A	745	35.378	86.065	124.519	0.00	0.00		C
ATOM	11251	HN	LEU	A	745	34.599	85.232	120.922	0.00	0.00		H
ATOM	11252	HCA	LEU	A	745	36.265	83.884	122.846	0.00	0.00		H
ATOM	11253	HCB	LEU	A	745	33.229	84.011	122.636	0.00	0.00		H
ATOM	11254	HCB	LEU	A	745	34.180	83.507	124.026	0.00	0.00		H
ATOM	11255	HCD1	LEU	A	745	32.884	85.176	125.505	0.00	0.00		H
ATOM	11256	HCD1	LEU	A	745	32.761	86.868	124.993	0.00	0.00		H
ATOM	11257	HCD1	LEU	A	745	31.946	85.610	124.064	0.00	0.00		H
ATOM	11258	HCD2	LEU	A	745	36.240	86.098	123.851	0.00	0.00		H
ATOM	11259	HCD2	LEU	A	745	35.265	87.058	124.955	0.00	0.00		H
ATOM	11260	HCD2	LEU	A	745	35.575	85.344	125.311	0.00	0.00		H
ATOM	11261	HCG	LEU	A	745	33.991	86.359	122.909	0.00	0.00		H
ATOM	11262	N	ARG	A	746	35.159	82.286	120.324	0.00	0.00		N
ATOM	11263	CA	ARG	A	746	35.154	80.977	119.718	0.00	0.00		C
ATOM	11264	C	ARG	A	746	36.403	80.193	120.015	0.00	0.00		C
ATOM	11265	O	ARG	A	746	36.243	79.031	120.483	0.00	0.00		O
ATOM	11266	CB	ARG	A	746	34.876	81.086	118.189	0.00	0.00		C
ATOM	11267	CG	ARG	A	746	33.527	81.763	117.802	0.00	0.00		C
ATOM	11268	CD	ARG	A	746	32.242	80.992	118.170	0.00	0.00		C
ATOM	11269	NE	ARG	A	746	32.180	79.766	117.463	0.00	0.00		N
ATOM	11270	CZ	ARG	A	746	31.259	78.827	117.643	0.00	0.00		C
ATOM	11271	NH1	ARG	A	746	30.179	78.889	118.408	0.00	0.00		N
ATOM	11272	NH2	ARG	A	746	31.369	77.690	116.987	0.00	0.00		N
ATOM	11273	HN	ARG	A	746	35.149	83.046	119.728	0.00	0.00		H
ATOM	11274	HNE	ARG	A	746	32.836	79.587	116.787	0.00	0.00		H
ATOM	11275	HNH1	ARG	A	746	29.901	79.673	118.885	0.00	0.00		H
ATOM	11276	HNH1	ARG	A	746	29.653	78.091	118.398	0.00	0.00		H
ATOM	11277	HNH2	ARG	A	746	32.089	77.538	116.373	0.00	0.00		H
ATOM	11278	HNH2	ARG	A	746	30.683	77.050	117.153	0.00	0.00		H

ATOM	11279	HCA	ARG	A	746	34.315	80.425	120.151	0.00	0.00	H
ATOM	11280	HCB	ARG	A	746	35.677	81.661	117.720	0.00	0.00	H
ATOM	11281	HCB	ARG	A	746	34.907	80.084	117.753	0.00	0.00	H
ATOM	11282	HCD	ARG	A	746	32.215	80.807	119.243	0.00	0.00	H
ATOM	11283	HCD	ARG	A	746	31.378	81.608	117.912	0.00	0.00	H
ATOM	11284	HCG	ARG	A	746	33.464	82.730	118.294	0.00	0.00	H
ATOM	11285	HCG	ARG	A	746	33.524	81.947	116.723	0.00	0.00	H
ATOM	11286	N	PRO	A	747	37.686	80.670	119.871	0.00	0.00	N
ATOM	11287	CA	PRO	A	747	38.844	79.925	120.304	0.00	0.00	C
ATOM	11288	C	PRO	A	747	38.793	79.540	121.713	0.00	0.00	C
ATOM	11289	O	PRO	A	747	39.040	78.374	121.986	0.00	0.00	O
ATOM	11290	CB	PRO	A	747	40.071	80.816	119.977	0.00	0.00	C
ATOM	11291	CG	PRO	A	747	39.472	82.212	119.788	0.00	0.00	C
ATOM	11292	CD	PRO	A	747	38.066	81.910	119.251	0.00	0.00	C
ATOM	11293	HCA	PRO	A	747	38.913	79.021	119.687	0.00	0.00	H
ATOM	11294	HCB	PRO	A	747	40.837	80.814	120.760	0.00	0.00	H
ATOM	11295	HCB	PRO	A	747	40.536	80.488	119.041	0.00	0.00	H
ATOM	11296	HCD	PRO	A	747	37.420	82.754	119.480	0.00	0.00	H
ATOM	11297	HCD	PRO	A	747	38.104	81.778	118.165	0.00	0.00	H
ATOM	11298	HCG	PRO	A	747	39.407	82.729	120.751	0.00	0.00	H
ATOM	11299	HCG	PRO	A	747	40.054	82.820	119.091	0.00	0.00	H
ATOM	11300	N	ILE	A	748	38.458	80.395	122.670	0.00	0.00	N
ATOM	11301	CA	ILE	A	748	38.415	80.079	124.080	0.00	0.00	C
ATOM	11302	C	ILE	A	748	37.413	79.010	124.350	0.00	0.00	C
ATOM	11303	O	ILE	A	748	37.781	77.969	124.950	0.00	0.00	O
ATOM	11304	CB	ILE	A	748	38.343	81.314	125.056	0.00	0.00	C
ATOM	11305	CG1	ILE	A	748	36.913	81.833	125.424	0.00	0.00	C
ATOM	11306	CG2	ILE	A	748	39.260	82.468	124.550	0.00	0.00	C
ATOM	11307	CD1	ILE	A	748	36.854	82.840	126.601	0.00	0.00	C
ATOM	11308	HN	ILE	A	748	38.214	81.291	122.397	0.00	0.00	H
ATOM	11309	HCA	ILE	A	748	39.399	79.643	124.286	0.00	0.00	H
ATOM	11310	HCB	ILE	A	748	38.772	80.960	126.000	0.00	0.00	H
ATOM	11311	HCD1	ILE	A	748	37.253	82.389	127.511	0.00	0.00	H
ATOM	11312	HCD1	ILE	A	748	37.411	83.749	126.376	0.00	0.00	H
ATOM	11313	HCD1	ILE	A	748	35.819	83.124	126.789	0.00	0.00	H
ATOM	11314	HCG1	ILE	A	748	36.463	82.294	124.552	0.00	0.00	H
ATOM	11315	HCG1	ILE	A	748	36.280	80.995	125.718	0.00	0.00	H
ATOM	11316	HCG2	ILE	A	748	40.246	82.083	124.279	0.00	0.00	H
ATOM	11317	HCG2	ILE	A	748	38.824	82.955	123.675	0.00	0.00	H
ATOM	11318	HCG2	ILE	A	748	39.404	83.223	125.321	0.00	0.00	H
ATOM	11319	N	LEU	A	749	36.149	79.098	123.855	0.00	0.00	N
ATOM	11320	CA	LEU	A	749	35.166	78.049	123.946	0.00	0.00	C
ATOM	11321	C	LEU	A	749	35.733	76.744	123.510	0.00	0.00	C
ATOM	11322	O	LEU	A	749	35.673	75.767	124.296	0.00	0.00	O
ATOM	11323	CB	LEU	A	749	33.891	78.440	123.139	0.00	0.00	C
ATOM	11324	CG	LEU	A	749	32.813	77.318	122.968	0.00	0.00	C
ATOM	11325	CD1	LEU	A	749	32.313	76.739	124.318	0.00	0.00	C
ATOM	11326	CD2	LEU	A	749	31.608	77.843	122.151	0.00	0.00	C
ATOM	11327	HN	LEU	A	749	35.897	79.906	123.398	0.00	0.00	H
ATOM	11328	HCA	LEU	A	749	34.879	77.970	124.999	0.00	0.00	H
ATOM	11329	HCB	LEU	A	749	33.432	79.305	123.626	0.00	0.00	H
ATOM	11330	HCB	LEU	A	749	34.201	78.760	122.142	0.00	0.00	H
ATOM	11331	HCD1	LEU	A	749	33.111	76.218	124.845	0.00	0.00	H
ATOM	11332	HCD1	LEU	A	749	31.950	77.545	124.949	0.00	0.00	H
ATOM	11333	HCD1	LEU	A	749	31.504	76.023	124.160	0.00	0.00	H
ATOM	11334	HCD2	LEU	A	749	31.936	78.234	121.185	0.00	0.00	H
ATOM	11335	HCD2	LEU	A	749	30.909	77.027	121.969	0.00	0.00	H
ATOM	11336	HCD2	LEU	A	749	31.089	78.632	122.698	0.00	0.00	H
ATOM	11337	HCG	LEU	A	749	33.252	76.494	122.395	0.00	0.00	H
ATOM	11338	N	LYS	A	750	36.357	76.622	122.312	0.00	0.00	N
ATOM	11339	CA	LYS	A	750	36.989	75.404	121.883	0.00	0.00	C
ATOM	11340	C	LYS	A	750	38.136	74.952	122.745	0.00	0.00	C
ATOM	11341	O	LYS	A	750	38.103	73.777	123.196	0.00	0.00	O
ATOM	11342	CB	LYS	A	750	37.318	75.461	120.351	0.00	0.00	C
ATOM	11343	CG	LYS	A	750	36.232	74.753	119.482	0.00	0.00	C
ATOM	11344	CD	LYS	A	750	36.659	74.464	118.016	0.00	0.00	C
ATOM	11345	CE	LYS	A	750	35.728	73.458	117.284	0.00	0.00	C
ATOM	11346	NZ	LYS	A	750	35.760	72.140	117.937	0.00	0.00	N
ATOM	11347	HN	LYS	A	750	36.366	77.395	121.732	0.00	0.00	H
ATOM	11348	HNZ	LYS	A	750	36.729	71.881	118.119	0.00	0.00	H
ATOM	11349	HNZ	LYS	A	750	35.264	72.183	118.829	0.00	0.00	H
ATOM	11350	HNZ	LYS	A	750	35.345	71.412	117.379	0.00	0.00	H
ATOM	11351	HCA	LYS	A	750	36.221	74.634	122.020	0.00	0.00	H
ATOM	11352	HCB	LYS	A	750	37.423	76.498	120.020	0.00	0.00	H
ATOM	11353	HCB	LYS	A	750	38.282	74.986	120.164	0.00	0.00	H
ATOM	11354	HCD	LYS	A	750	36.669	75.406	117.461	0.00	0.00	H
ATOM	11355	HCD	LYS	A	750	37.676	74.062	118.000	0.00	0.00	H
ATOM	11356	HCE	LYS	A	750	34.702	73.832	117.270	0.00	0.00	H
ATOM	11357	HCE	LYS	A	750	36.067	73.342	116.252	0.00	0.00	H
ATOM	11358	HCG	LYS	A	750	35.985	73.802	119.953	0.00	0.00	H

ATOM	11359	HCG	LYS	A	750	35.323	75.363	119.482	0.00	0.00	H
ATOM	11360	N	ILE	A	751	39.212	75.718	123.075	0.00	0.00	N
ATOM	11361	CA	ILE	A	751	40.323	75.220	123.875	0.00	0.00	C
ATOM	11362	C	ILE	A	751	39.863	74.729	125.210	0.00	0.00	C
ATOM	11363	O	ILE	A	751	40.358	73.663	125.655	0.00	0.00	O
ATOM	11364	CB	ILE	A	751	41.672	76.051	123.924	0.00	0.00	C
ATOM	11365	CG1	ILE	A	751	42.089	76.679	125.297	0.00	0.00	C
ATOM	11366	CG2	ILE	A	751	41.853	77.065	122.764	0.00	0.00	C
ATOM	11367	CD1	ILE	A	751	41.193	77.830	125.800	0.00	0.00	C
ATOM	11368	HN	ILE	A	751	39.213	76.618	122.749	0.00	0.00	H
ATOM	11369	HCA	ILE	A	751	40.607	74.311	123.327	0.00	0.00	H
ATOM	11370	HCB	ILE	A	751	42.461	75.312	123.749	0.00	0.00	H
ATOM	11371	HCD1	ILE	A	751	41.549	78.790	125.421	0.00	0.00	H
ATOM	11372	HCD1	ILE	A	751	40.174	77.684	125.471	0.00	0.00	H
ATOM	11373	HCD1	ILE	A	751	41.192	77.857	126.888	0.00	0.00	H
ATOM	11374	HCG1	ILE	A	751	42.113	75.893	126.058	0.00	0.00	H
ATOM	11375	HCG1	ILE	A	751	43.112	77.058	125.228	0.00	0.00	H
ATOM	11376	HCG2	ILE	A	751	41.550	76.625	121.812	0.00	0.00	H
ATOM	11377	HCG2	ILE	A	751	41.267	77.962	122.947	0.00	0.00	H
ATOM	11378	HCG2	ILE	A	751	42.900	77.365	122.679	0.00	0.00	H
ATOM	11379	N	LEU	A	752	38.873	75.347	125.909	0.00	0.00	N
ATOM	11380	CA	LEU	A	752	38.337	74.862	127.160	0.00	0.00	C
ATOM	11381	C	LEU	A	752	37.747	73.486	127.099	0.00	0.00	C
ATOM	11382	O	LEU	A	752	37.507	72.903	128.190	0.00	0.00	O
ATOM	11383	CB	LEU	A	752	37.302	75.886	127.721	0.00	0.00	C
ATOM	11384	CG	LEU	A	752	37.862	77.294	128.107	0.00	0.00	C
ATOM	11385	CD1	LEU	A	752	36.702	78.291	128.356	0.00	0.00	C
ATOM	11386	CD2	LEU	A	752	38.807	77.264	129.330	0.00	0.00	C
ATOM	11387	HN	LEU	A	752	38.506	76.165	125.551	0.00	0.00	H
ATOM	11388	HCA	LEU	A	752	39.172	74.798	127.862	0.00	0.00	H
ATOM	11389	HCB	LEU	A	752	36.522	76.007	126.962	0.00	0.00	H
ATOM	11390	HCB	LEU	A	752	36.817	75.466	128.608	0.00	0.00	H
ATOM	11391	HCD1	LEU	A	752	36.072	78.353	127.468	0.00	0.00	H
ATOM	11392	HCD1	LEU	A	752	36.088	77.970	129.201	0.00	0.00	H
ATOM	11393	HCD1	LEU	A	752	37.090	79.290	128.562	0.00	0.00	H
ATOM	11394	HCD2	LEU	A	752	38.328	76.768	130.176	0.00	0.00	H
ATOM	11395	HCD2	LEU	A	752	39.727	76.740	129.077	0.00	0.00	H
ATOM	11396	HCD2	LEU	A	752	39.083	78.279	129.623	0.00	0.00	H
ATOM	11397	HCG	LEU	A	752	38.447	77.687	127.277	0.00	0.00	H
ATOM	11398	N	ALA	A	753	37.524	72.855	125.915	0.00	0.00	N
ATOM	11399	CA	ALA	A	753	37.036	71.519	125.710	0.00	0.00	C
ATOM	11400	C	ALA	A	753	38.061	70.627	125.081	0.00	0.00	C
ATOM	11401	O	ALA	A	753	37.728	69.470	124.710	0.00	0.00	O
ATOM	11402	CB	ALA	A	753	35.745	71.663	124.866	0.00	0.00	C
ATOM	11403	HN	ALA	A	753	37.724	73.318	125.097	0.00	0.00	H
ATOM	11404	HCA	ALA	A	753	36.759	71.050	126.660	0.00	0.00	H
ATOM	11405	HCB	ALA	A	753	34.994	72.229	125.423	0.00	0.00	H
ATOM	11406	HCB	ALA	A	753	35.942	72.192	123.933	0.00	0.00	H
ATOM	11407	HCB	ALA	A	753	35.325	70.687	124.625	0.00	0.00	H
ATOM	11408	N	LYS	A	754	39.361	71.011	124.993	0.00	0.00	N
ATOM	11409	CA	LYS	A	754	40.494	70.210	124.606	0.00	0.00	C
ATOM	11410	C	LYS	A	754	40.712	70.181	123.133	0.00	0.00	C
ATOM	11411	O	LYS	A	754	41.426	69.282	122.631	0.00	0.00	O
ATOM	11412	CB	LYS	A	754	40.512	68.827	125.346	0.00	0.00	C
ATOM	11413	CG	LYS	A	754	41.915	68.213	125.608	0.00	0.00	C
ATOM	11414	CD	LYS	A	754	41.817	66.919	126.460	0.00	0.00	C
ATOM	11415	CE	LYS	A	754	43.194	66.280	126.745	0.00	0.00	C
ATOM	11416	NZ	LYS	A	754	43.033	65.085	127.577	0.00	0.00	N
ATOM	11417	HN	LYS	A	754	39.583	71.913	125.237	0.00	0.00	H
ATOM	11418	HNZ	LYS	A	754	42.613	65.344	128.471	0.00	0.00	H
ATOM	11419	HNZ	LYS	A	754	42.426	64.415	127.103	0.00	0.00	H
ATOM	11420	HNZ	LYS	A	754	43.942	64.655	127.744	0.00	0.00	H
ATOM	11421	HCA	LYS	A	754	41.353	70.771	124.981	0.00	0.00	H
ATOM	11422	HCB	LYS	A	754	40.020	68.942	126.312	0.00	0.00	H
ATOM	11423	HCB	LYS	A	754	39.912	68.110	124.792	0.00	0.00	H
ATOM	11424	HCD	LYS	A	754	41.337	67.154	127.415	0.00	0.00	H
ATOM	11425	HCD	LYS	A	754	41.190	66.191	125.937	0.00	0.00	H
ATOM	11426	HCE	LYS	A	754	43.676	65.994	125.806	0.00	0.00	H
ATOM	11427	HCE	LYS	A	754	43.838	66.990	127.269	0.00	0.00	H
ATOM	11428	HCG	LYS	A	754	42.398	67.983	124.656	0.00	0.00	H
ATOM	11429	HCG	LYS	A	754	42.535	68.942	126.137	0.00	0.00	H
ATOM	11430	N	TYR	A	755	40.228	71.164	122.334	0.00	0.00	N
ATOM	11431	CA	TYR	A	755	40.480	71.279	120.920	0.00	0.00	C
ATOM	11432	C	TYR	A	755	41.751	71.996	120.622	0.00	0.00	C
ATOM	11433	O	TYR	A	755	42.135	72.923	121.372	0.00	0.00	O
ATOM	11434	CB	TYR	A	755	39.269	71.994	120.259	0.00	0.00	C
ATOM	11435	CG	TYR	A	755	38.073	71.116	120.186	0.00	0.00	C
ATOM	11436	CD1	TYR	A	755	36.968	71.286	121.052	0.00	0.00	C
ATOM	11437	CD2	TYR	A	755	38.032	70.074	119.233	0.00	0.00	C
ATOM	11438	CE1	TYR	A	755	35.849	70.437	120.971	0.00	0.00	C



ATOM	11439	CE2	TYR	A	755	36.914	69.230	119.147	0.00	0.00	C
ATOM	11440	CZ	TYR	A	755	35.821	69.409	120.015	0.00	0.00	C
ATOM	11441	OH	TYR	A	755	34.768	68.568	119.929	0.00	0.00	O
ATOM	11442	HN	TYR	A	755	39.698	71.865	122.743	0.00	0.00	H
ATOM	11443	HCA	TYR	A	755	40.564	70.277	120.485	0.00	0.00	H
ATOM	11444	HCN	TYR	A	755	39.051	72.896	120.829	0.00	0.00	H
ATOM	11445	HCN	TYR	A	755	39.521	72.318	119.245	0.00	0.00	H
ATOM	11446	HCD1	TYR	A	755	36.972	72.025	121.751	0.00	0.00	H
ATOM	11447	HCD2	TYR	A	755	38.818	69.922	118.595	0.00	0.00	H
ATOM	11448	HCE1	TYR	A	755	35.060	70.563	121.609	0.00	0.00	H
ATOM	11449	HCE2	TYR	A	755	36.911	68.478	118.458	0.00	0.00	H
ATOM	11450	HOH	TYR	A	755	34.017	68.583	120.547	0.00	0.00	H
ATOM	11451	N	GLU	A	756	42.458	71.643	119.519	0.00	0.00	N
ATOM	11452	CA	GLU	A	756	43.725	72.160	119.071	0.00	0.00	C
ATOM	11453	C	GLU	A	756	44.869	71.753	119.919	0.00	0.00	C
ATOM	11454	O	GLU	A	756	44.784	71.083	120.975	0.00	0.00	O
ATOM	11455	CB	GLU	A	756	43.695	73.695	118.794	0.00	0.00	C
ATOM	11456	CG	GLU	A	756	44.954	74.234	118.049	0.00	0.00	C
ATOM	11457	CD	GLU	A	756	44.958	75.682	117.769	0.00	0.00	C
ATOM	11458	OE1	GLU	A	756	44.030	76.447	118.104	0.00	0.00	O
ATOM	11459	OE2	GLU	A	756	45.929	76.195	117.173	0.00	0.00	O
ATOM	11460	HN	GLU	A	756	42.072	70.934	118.985	0.00	0.00	H
ATOM	11461	HCA	GLU	A	756	43.906	71.672	118.110	0.00	0.00	H
ATOM	11462	HCN	GLU	A	756	42.812	73.918	118.187	0.00	0.00	H
ATOM	11463	HCN	GLU	A	756	43.588	74.240	119.735	0.00	0.00	H
ATOM	11464	HCG	GLU	A	756	45.846	74.023	118.642	0.00	0.00	H
ATOM	11465	HCG	GLU	A	756	45.050	73.715	117.092	0.00	0.00	H
TER	11466		GLU	A	756						
ATOM	11467	N	ALA	B	9	-21.857	71.600	140.292	0.00	0.00	N
ATOM	11468	CA	ALA	B	9	-22.845	71.618	139.267	0.00	0.00	C
ATOM	11469	C	ALA	B	9	-23.263	73.004	138.930	0.00	0.00	C
ATOM	11470	O	ALA	B	9	-23.472	73.830	139.850	0.00	0.00	O
ATOM	11471	CB	ALA	B	9	-24.051	70.748	139.698	0.00	0.00	C
ATOM	11472	HN	ALA	B	9	-22.213	72.010	141.097	0.00	0.00	H
ATOM	11473	HN	ALA	B	9	-21.602	70.684	140.485	0.00	0.00	H
ATOM	11474	HN	ALA	B	9	-21.074	72.095	140.002	0.00	0.00	H
ATOM	11475	HCA	ALA	B	9	-22.396	71.159	138.382	0.00	0.00	H
ATOM	11476	HCN	ALA	B	9	-24.527	71.159	140.590	0.00	0.00	H
ATOM	11477	HCN	ALA	B	9	-24.790	70.701	138.895	0.00	0.00	H
ATOM	11478	HCN	ALA	B	9	-23.721	69.731	139.917	0.00	0.00	H
ATOM	11479	N	ARG	B	10	-23.479	73.355	137.639	0.00	0.00	N
ATOM	11480	CA	ARG	B	10	-23.836	74.664	137.145	0.00	0.00	C
ATOM	11481	C	ARG	B	10	-25.091	75.256	137.704	0.00	0.00	C
ATOM	11482	O	ARG	B	10	-25.378	76.441	137.413	0.00	0.00	O
ATOM	11483	CB	ARG	B	10	-23.875	74.610	135.587	0.00	0.00	C
ATOM	11484	CG	ARG	B	10	-22.496	74.285	134.938	0.00	0.00	C
ATOM	11485	CD	ARG	B	10	-22.509	74.322	133.391	0.00	0.00	C
ATOM	11486	NE	ARG	B	10	-22.655	75.665	132.923	0.00	0.00	N
ATOM	11487	CZ	ARG	B	10	-23.710	76.195	132.298	0.00	0.00	C
ATOM	11488	NH1	ARG	B	10	-24.837	75.551	132.032	0.00	0.00	N
ATOM	11489	NH2	ARG	B	10	-23.640	77.461	131.923	0.00	0.00	N
ATOM	11490	HN	ARG	B	10	-23.352	72.657	136.979	0.00	0.00	H
ATOM	11491	HNE	ARG	B	10	-21.912	76.263	133.079	0.00	0.00	H
ATOM	11492	HNH1	ARG	B	10	-24.940	74.631	132.295	0.00	0.00	H
ATOM	11493	HNH1	ARG	B	10	-25.556	76.009	131.579	0.00	0.00	H
ATOM	11494	HNH2	ARG	B	10	-22.840	77.972	132.097	0.00	0.00	H
ATOM	11495	HNH2	ARG	B	10	-24.389	77.872	131.475	0.00	0.00	H
ATOM	11496	HCA	ARG	B	10	-23.033	75.349	137.420	0.00	0.00	H
ATOM	11497	HCN	ARG	B	10	-24.613	73.867	135.269	0.00	0.00	H
ATOM	11498	HCN	ARG	B	10	-24.202	75.583	135.209	0.00	0.00	H
ATOM	11499	HCD	ARG	B	10	-21.552	73.946	133.020	0.00	0.00	H
ATOM	11500	HCD	ARG	B	10	-23.284	73.650	133.014	0.00	0.00	H
ATOM	11501	HCG	ARG	B	10	-21.750	74.997	135.301	0.00	0.00	H
ATOM	11502	HCG	ARG	B	10	-22.177	73.286	135.247	0.00	0.00	H
ATOM	11503	N	THR	B	11	-25.893	74.554	138.538	0.00	0.00	N
ATOM	11504	CA	THR	B	11	-27.071	75.030	139.216	0.00	0.00	C
ATOM	11505	C	THR	B	11	-26.843	75.267	140.670	0.00	0.00	C
ATOM	11506	O	THR	B	11	-27.616	76.036	141.296	0.00	0.00	O
ATOM	11507	CB	THR	B	11	-28.249	74.037	138.969	0.00	0.00	C
ATOM	11508	CG2	THR	B	11	-28.062	72.629	139.586	0.00	0.00	C
ATOM	11509	OG1	THR	B	11	-29.467	74.578	139.479	0.00	0.00	O
ATOM	11510	HN	THR	B	11	-25.623	73.642	138.717	0.00	0.00	H
ATOM	11511	HCA	THR	B	11	-27.380	75.981	138.779	0.00	0.00	H
ATOM	11512	HCN	THR	B	11	-28.374	73.920	137.887	0.00	0.00	H
ATOM	11513	HCG2	THR	B	11	-27.152	72.161	139.211	0.00	0.00	H
ATOM	11514	HCG2	THR	B	11	-28.007	72.687	140.675	0.00	0.00	H
ATOM	11515	HCG2	THR	B	11	-28.907	71.990	139.320	0.00	0.00	H
ATOM	11516	HOG1	THR	B	11	-30.158	73.918	139.245	0.00	0.00	H
ATOM	11517	N	LEU	B	12	-25.832	74.663	141.347	0.00	0.00	N
ATOM	11518	CA	LEU	B	12	-25.769	74.536	142.783	0.00	0.00	C

ATOM	11519	C	LEU	B	12	-25.652	75.843	143.485	0.00	0.00	C
ATOM	11520	O	LEU	B	12	-26.108	75.939	144.650	0.00	0.00	O
ATOM	11521	CB	LEU	B	12	-24.646	73.518	143.153	0.00	0.00	C
ATOM	11522	CG	LEU	B	12	-24.421	73.204	144.668	0.00	0.00	C
ATOM	11523	CD1	LEU	B	12	-25.648	72.523	145.332	0.00	0.00	C
ATOM	11524	CD2	LEU	B	12	-23.156	72.324	144.860	0.00	0.00	C
ATOM	11525	HN	LEU	B	12	-25.101	74.312	140.835	0.00	0.00	H
ATOM	11526	HCA	LEU	B	12	-26.721	74.090	143.089	0.00	0.00	H
ATOM	11527	HCB	LEU	B	12	-24.854	72.577	142.638	0.00	0.00	H
ATOM	11528	HCB	LEU	B	12	-23.710	73.898	142.748	0.00	0.00	H
ATOM	11529	HCD1	LEU	B	12	-26.514	73.185	145.313	0.00	0.00	H
ATOM	11530	HCD1	LEU	B	12	-25.902	71.597	144.814	0.00	0.00	H
ATOM	11531	HCD1	LEU	B	12	-25.434	72.290	146.378	0.00	0.00	H
ATOM	11532	HCD2	LEU	B	12	-23.274	71.361	144.359	0.00	0.00	H
ATOM	11533	HCD2	LEU	B	12	-22.278	72.825	144.448	0.00	0.00	H
ATOM	11534	HCD2	LEU	B	12	-22.970	72.145	145.921	0.00	0.00	H
ATOM	11535	HCG	LEU	B	12	-24.229	74.144	145.194	0.00	0.00	H
ATOM	11536	N	GLY	B	13	-25.126	76.931	142.874	0.00	0.00	N
ATOM	11537	CA	GLY	B	13	-25.063	78.245	143.426	0.00	0.00	C
ATOM	11538	C	GLY	B	13	-26.085	79.185	142.934	0.00	0.00	C
ATOM	11539	O	GLY	B	13	-25.960	80.369	143.319	0.00	0.00	O
ATOM	11540	HN	GLY	B	13	-24.753	76.843	141.995	0.00	0.00	H
ATOM	11541	HCA	GLY	B	13	-25.120	78.231	144.515	0.00	0.00	H
ATOM	11542	HCA	GLY	B	13	-24.085	78.639	143.154	0.00	0.00	H
ATOM	11543	N	VAL	B	14	-27.133	78.843	142.139	0.00	0.00	N
ATOM	11544	CA	VAL	B	14	-28.118	79.792	141.655	0.00	0.00	C
ATOM	11545	C	VAL	B	14	-28.776	80.543	142.767	0.00	0.00	C
ATOM	11546	O	VAL	B	14	-29.014	79.970	143.859	0.00	0.00	O
ATOM	11547	CB	VAL	B	14	-29.118	79.083	140.676	0.00	0.00	C
ATOM	11548	CG1	VAL	B	14	-30.391	79.914	140.337	0.00	0.00	C
ATOM	11549	CG2	VAL	B	14	-28.407	78.710	139.343	0.00	0.00	C
ATOM	11550	HN	VAL	B	14	-27.241	77.921	141.886	0.00	0.00	H
ATOM	11551	HCA	VAL	B	14	-27.576	80.536	141.063	0.00	0.00	H
ATOM	11552	HCB	VAL	B	14	-29.458	78.156	141.152	0.00	0.00	H
ATOM	11553	HCG1	VAL	B	14	-30.118	80.885	139.919	0.00	0.00	H
ATOM	11554	HCG1	VAL	B	14	-31.013	79.385	139.611	0.00	0.00	H
ATOM	11555	HCG1	VAL	B	14	-30.996	80.074	141.231	0.00	0.00	H
ATOM	11556	HCG2	VAL	B	14	-28.183	79.606	138.758	0.00	0.00	H
ATOM	11557	HCG2	VAL	B	14	-27.466	78.197	139.537	0.00	0.00	H
ATOM	11558	HCG2	VAL	B	14	-29.039	78.052	138.743	0.00	0.00	H
ATOM	11559	N									

ATOM	11599	CA	ILE	B	18	-20.748	84.536	148.458	0.00	0.00	C
ATOM	11600	C	ILE	B	18	-19.810	85.695	148.567	0.00	0.00	C
ATOM	11601	O	ILE	B	18	-19.662	86.509	147.625	0.00	0.00	O
ATOM	11602	CB	ILE	B	18	-20.046	83.188	148.020	0.00	0.00	C
ATOM	11603	CG1	ILE	B	18	-18.930	83.371	146.943	0.00	0.00	C
ATOM	11604	CG2	ILE	B	18	-21.062	82.094	147.563	0.00	0.00	C
ATOM	11605	CD1	ILE	B	18	-18.150	82.091	146.551	0.00	0.00	C
ATOM	11606	HN	ILE	B	18	-21.775	85.187	146.788	0.00	0.00	H
ATOM	11607	HCA	ILE	B	18	-21.095	84.381	149.477	0.00	0.00	H
ATOM	11608	HCB	ILE	B	18	-19.541	82.798	148.912	0.00	0.00	H
ATOM	11609	HCD1	ILE	B	18	-17.762	81.596	147.444	0.00	0.00	H
ATOM	11610	HCD1	ILE	B	18	-18.788	81.395	146.004	0.00	0.00	H
ATOM	11611	HCD1	ILE	B	18	-17.308	82.352	145.907	0.00	0.00	H
ATOM	11612	HCG1	ILE	B	18	-19.386	83.803	146.053	0.00	0.00	H
ATOM	11613	HCG1	ILE	B	18	-18.183	84.076	147.316	0.00	0.00	H
ATOM	11614	HCG2	ILE	B	18	-21.946	82.071	148.194	0.00	0.00	H
ATOM	11615	HCG2	ILE	B	18	-21.391	82.286	146.541	0.00	0.00	H
ATOM	11616	HCG2	ILE	B	18	-20.607	81.102	147.600	0.00	0.00	H
ATOM	11617	N	ALA	B	19	-19.064	85.830	149.685	0.00	0.00	N
ATOM	11618	CA	ALA	B	19	-18.001	86.768	149.907	0.00	0.00	C
ATOM	11619	C	ALA	B	19	-16.688	86.089	150.055	0.00	0.00	C
ATOM	11620	O	ALA	B	19	-16.583	85.114	150.842	0.00	0.00	O
ATOM	11621	CB	ALA	B	19	-18.331	87.599	151.164	0.00	0.00	C
ATOM	11622	HN	ALA	B	19	-19.297	85.236	150.397	0.00	0.00	H
ATOM	11623	HCA	ALA	B	19	-17.931	87.474	149.077	0.00	0.00	H
ATOM	11624	HCB	ALA	B	19	-18.538	86.944	152.011	0.00	0.00	H
ATOM	11625	HCB	ALA	B	19	-17.499	88.254	151.424	0.00	0.00	H
ATOM	11626	HCB	ALA	B	19	-19.204	88.221	150.972	0.00	0.00	H
ATOM	11627	N	VAL	B	20	-15.610	86.580	149.393	0.00	0.00	N
ATOM	11628	CA	VAL	B	20	-14.248	86.150	149.563	0.00	0.00	C
ATOM	11629	C	VAL	B	20	-13.503	87.193	150.326	0.00	0.00	C
ATOM	11630	O	VAL	B	20	-13.368	88.361	149.871	0.00	0.00	O
ATOM	11631	CB	VAL	B	20	-13.589	85.685	148.220	0.00	0.00	C
ATOM	11632	CG1	VAL	B	20	-13.413	86.787	147.144	0.00	0.00	C
ATOM	11633	CG2	VAL	B	20	-12.227	84.976	148.465	0.00	0.00	C
ATOM	11634	HN	VAL	B	20	-15.779	87.316	148.802	0.00	0.00	H
ATOM	11635	HCA	VAL	B	20	-14.252	85.253	150.186	0.00	0.00	H
ATOM	11636	HCB	VAL	B	20	-14.262	84.939	147.786	0.00	0.00	H
ATOM	11637	HCG1	VAL	B	20	-12.706	87.544	147.482	0.00	0.00	H
ATOM	11638	HCG1	VAL	B	20	-13.035	86.355	146.214	0.00	0.00	H
ATOM	11639	HCG1	VAL	B	20	-14.367	87.259	146.923	0.00	0.00	H
ATOM	11640	HCG2	VAL	B	20	-12.347	84.146	149.164	0.00	0.00	H
ATOM	11641	HCG2	VAL	B	20	-11.833	84.571	147.531	0.00	0.00	H
ATOM	11642	HCG2	VAL	B	20	-11.495	85.673	148.878	0.00	0.00	H
ATOM	11643	N	LEU	B	21	-13.022	86.855	151.548	0.00	0.00	N
ATOM	11644	CA	LEU	B	21	-12.280	87.677	152.452	0.00	0.00	C
ATOM	11645	C	LEU	B	21	-10.958	87.047	152.679	0.00	0.00	C
ATOM	11646	O	LEU	B	21	-10.880	85.836	152.990	0.00	0.00	O
ATOM	11647	CB	LEU	B	21	-13.123	87.800	153.749	0.00	0.00	C
ATOM	11648	CG	LEU	B	21	-12.478	88.674	154.875	0.00	0.00	C
ATOM	11649	CD1	LEU	B	21	-13.578	89.421	155.658	0.00	0.00	C
ATOM	11650	CD2	LEU	B	21	-11.626	87.843	155.872	0.00	0.00	C
ATOM	11651	HN	LEU	B	21	-13.199	85.971	151.884	0.00	0.00	H
ATOM	11652	HCA	LEU	B	21	-12.136	88.682	152.041	0.00	0.00	H
ATOM	11653	HCB	LEU	B	21	-14.076	88.242	153.443	0.00	0.00	H
ATOM	11654	HCB	LEU	B	21	-13.355	86.806	154.142	0.00	0.00	H
ATOM	11655	HCD1	LEU	B	21	-14.259	88.710	156.127	0.00	0.00	H
ATOM	11656	HCD1	LEU	B	21	-13.135	90.051	156.425	0.00	0.00	H
ATOM	11657	HCD1	LEU	B	21	-14.140	90.061	154.982	0.00	0.00	H
ATOM	11658	HCD2	LEU	B	21	-12.238	87.077	156.351	0.00	0.00	H
ATOM	11659	HCD2	LEU	B	21	-10.790	87.356	155.373	0.00	0.00	H
ATOM	11660	HCD2	LEU	B	21	-11.220	88.487	156.652	0.00	0.00	H
ATOM	11661	HCG	LEU	B	21	-11.832	89.435	154.422	0.00	0.00	H
ATOM	11662	N	THR	B	22	-9.840	87.787	152.538	0.00	0.00	N
ATOM	11663	CA	THR	B	22	-8.488	87.308	152.599	0.00	0.00	C
ATOM	11664	C	THR	B	22	-7.733	88.114	153.588	0.00	0.00	C
ATOM	11665	O	THR	B	22	-7.506	89.324	153.359	0.00	0.00	O
ATOM	11666	CB	THR	B	22	-7.891	87.245	151.159	0.00	0.00	C
ATOM	11667	CG2	THR	B	22	-8.272	88.411	150.224	0.00	0.00	C
ATOM	11668	OG1	THR	B	22	-6.474	87.135	151.196	0.00	0.00	O
ATOM	11669	HN	THR	B	22	-9.961	88.729	152.337	0.00	0.00	H
ATOM	11670	HCA	THR	B	22	-8.478	86.289	152.975	0.00	0.00	H
ATOM	11671	HCB	THR	B	22	-8.269	86.335	150.682	0.00	0.00	H
ATOM	11672	HCG2	THR	B	22	-7.826	89.343	150.578	0.00	0.00	H
ATOM	11673	HCG2	THR	B	22	-7.909	88.186	149.224	0.00	0.00	H
ATOM	11674	HCG2	THR	B	22	-9.353	88.532	150.153	0.00	0.00	H
ATOM	11675	HOG1	THR	B	22	-6.146	87.714	150.490	0.00	0.00	H
ATOM	11676	N	SER	B	23	-7.378	87.551	154.770	0.00	0.00	N
ATOM	11677	CA	SER	B	23	-6.902	88.240	155.938	0.00	0.00	C
ATOM	11678	C	SER	B	23	-5.807	87.500	156.610	0.00	0.00	C

ATOM	11679	O	SER	B	23	-5.913	86.280	156.874	0.00	0.00	O
ATOM	11680	CB	SER	B	23	-8.063	88.512	156.932	0.00	0.00	C
ATOM	11681	OG	SER	B	23	-8.613	87.333	157.516	0.00	0.00	O
ATOM	11682	HN	SER	B	23	-7.482	86.600	154.828	0.00	0.00	H
ATOM	11683	HCA	SER	B	23	-6.521	89.221	155.644	0.00	0.00	H
ATOM	11684	HCB	SER	B	23	-7.724	89.173	157.735	0.00	0.00	H
ATOM	11685	HCB	SER	B	23	-8.864	89.027	156.401	0.00	0.00	H
ATOM	11686	HOG	SER	B	23	-7.988	87.049	158.197	0.00	0.00	H
ATOM	11687	N	GLY	B	24	-4.706	88.173	156.992	0.00	0.00	N
ATOM	11688	CA	GLY	B	24	-3.557	87.665	157.679	0.00	0.00	C
ATOM	11689	C	GLY	B	24	-2.307	88.106	157.032	0.00	0.00	C
ATOM	11690	O	GLY	B	24	-2.321	88.887	156.050	0.00	0.00	O
ATOM	11691	HN	GLY	B	24	-4.668	89.085	156.721	0.00	0.00	H
ATOM	11692	HCA	GLY	B	24	-3.567	88.048	158.701	0.00	0.00	H
ATOM	11693	HCA	GLY	B	24	-3.560	86.573	157.719	0.00	0.00	H
ATOM	11694	N	GLY	B	25	-1.122	87.661	157.499	0.00	0.00	N
ATOM	11695	CA	GLY	B	25	0.134	87.953	156.881	0.00	0.00	C
ATOM	11696	C	GLY	B	25	0.229	87.382	155.515	0.00	0.00	C
ATOM	11697	O	GLY	B	25	-0.033	86.162	155.396	0.00	0.00	O
ATOM	11698	HN	GLY	B	25	-1.136	87.074	158.271	0.00	0.00	H
ATOM	11699	HCA	GLY	B	25	0.275	89.033	156.866	0.00	0.00	H
ATOM	11700	HCA	GLY	B	25	0.922	87.525	157.500	0.00	0.00	H
ATOM	11701	N	ASP	B	26	0.617	88.129	154.448	0.00	0.00	N
ATOM	11702	CA	ASP	B	26	0.684	87.665	153.079	0.00	0.00	C
ATOM	11703	C	ASP	B	26	1.372	86.340	152.929	0.00	0.00	C
ATOM	11704	O	ASP	B	26	2.539	86.219	153.381	0.00	0.00	O
ATOM	11705	CB	ASP	B	26	1.402	88.726	152.182	0.00	0.00	C
ATOM	11706	CG	ASP	B	26	0.619	89.894	151.740	0.00	0.00	C
ATOM	11707	OD1	ASP	B	26	-0.425	89.756	151.064	0.00	0.00	O
ATOM	11708	OD2	ASP	B	26	1.050	91.054	151.935	0.00	0.00	O
ATOM	11709	HN	ASP	B	26	0.821	89.045	154.606	0.00	0.00	H
ATOM	11710	HCA	ASP	B	26	-0.345	87.560	152.719	0.00	0.00	H
ATOM	11711	HCB	ASP	B	26	2.314	89.064	152.677	0.00	0.00	H
ATOM	11712	HCB	ASP	B	26	1.707	88.252	151.253	0.00	0.00	H
ATOM	11713	N	ALA	B	27	0.730	85.293	152.349	0.00	0.00	N
ATOM	11714	CA	ALA	B	27	1.277	83.999	152.031	0.00	0.00	C
ATOM	11715	C	ALA	B	27	1.095	83.648	150.587	0.00	0.00	C
ATOM	11716	O	ALA	B	27	0.002	83.855	149.996	0.00	0.00	O
ATOM	11717	CB	ALA	B	27	0.596	82.961	152.957	0.00	0.00	C
ATOM	11718	HN	ALA	B	27	-0.207	85.409	152.162	0.00	0.00	H
ATOM	11719	HCA	ALA	B	27	2.350	83.970	152.252	0.00	0.00	H
ATOM	11720	HCB	ALA	B	27	0.780	83.212	154.004	0.00	0.00	H
ATOM	11721	HCB	ALA	B	27	-0.482	82.932	152.792	0.00	0.00	H
ATOM	11722	HCB	ALA	B	27	0.999	81.965	152.770	0.00	0.00	H
ATOM	11723	N	GLN	B	28	2.110	83.080	149.890	0.00	0.00	N
ATOM	11724	CA	GLN	B	28	2.088	82.715	148.506	0.00	0.00	C
ATOM	11725	C	GLN	B	28	1.044	81.735	148.209	0.00	0.00	C
ATOM	11726	O	GLN	B	28	1.079	80.636	148.744	0.00	0.00	O
ATOM	11727	CB	GLN	B	28	3.480	82.193	148.031	0.00	0.00	C
ATOM	11728	CG	GLN	B	28	4.726	83.022	148.450	0.00	0.00	C
ATOM	11729	CD	GLN	B	28	5.376	82.619	149.720	0.00	0.00	C
ATOM	11730	NE2	GLN	B	28	6.708	82.655	149.841	0.00	0.00	N
ATOM	11731	OE1	GLN	B	28	4.726	82.354	150.755	0.00	0.00	O
ATOM	11732	HN	GLN	B	28	2.935	82.885	150.329	0.00	0.00	H
ATOM	11733	HNE2	GLN	B	28	7.234	82.960	149.103	0.00	0.00	H
ATOM	11734	HNE2	GLN	B	28	7.103	82.520	150.705	0.00	0.00	H
ATOM	11735	HCA	GLN	B	28	1.892	83.632	147.951	0.00	0.00	H
ATOM	11736	HCB	GLN	B	28	3.613	81.158	148.350	0.00	0.00	H
ATOM	11737	HCB	GLN	B	28	3.458	82.196	146.941	0.00	0.00	H
ATOM	11738	HCG	GLN	B	28	5.471	82.947	147.653	0.00	0.00	H
ATOM	11739	HCG	GLN	B	28	4.443	84.071	148.516	0.00	0.00	H
ATOM	11740	N	GLY	B	29	0.071	82.050	147.375	0.00	0.00	N
ATOM	11741	CA	GLY	B	29	-1.025	81.210	146.994	0.00	0.00	C
ATOM	11742	C	GLY	B	29	-2.322	81.693	147.503	0.00	0.00	C
ATOM	11743	O	GLY	B	29	-3.354	81.140	147.048	0.00	0.00	O
ATOM	11744	HN	GLY	B	29	0.096	82.940	146.993	0.00	0.00	H
ATOM	11745	HCA	GLY	B	29	-1.062	81.215	145.902	0.00	0.00	H
ATOM	11746	HCA	GLY	B	29	-0.894	80.172	147.307	0.00	0.00	H
ATOM	11747	N	MET	B	30	-2.439	82.727	148.380	0.00	0.00	N
ATOM	11748	CA	MET	B	30	-3.702	83.348	148.701	0.00	0.00	C
ATOM	11749	C	MET	B	30	-4.358	83.834	147.448	0.00	0.00	C
ATOM	11750	O	MET	B	30	-5.516	83.436	147.188	0.00	0.00	O
ATOM	11751	CB	MET	B	30	-3.535	84.459	149.774	0.00	0.00	C
ATOM	11752	CG	MET	B	30	-3.072	83.931	151.157	0.00	0.00	C
ATOM	11753	SD	MET	B	30	-2.527	85.293	152.224	0.00	0.00	S
ATOM	11754	CE	MET	B	30	-4.018	85.474	153.227	0.00	0.00	C
ATOM	11755	HN	MET	B	30	-1.640	83.074	148.806	0.00	0.00	H
ATOM	11756	HCA	MET	B	30	-4.344	82.579	149.146	0.00	0.00	H
ATOM	11757	HCB	MET	B	30	-2.812	85.187	149.414	0.00	0.00	H
ATOM	11758	HCB	MET	B	30	-4.492	84.971	149.910	0.00	0.00	H

ATOM	11759	HCE	MET	B	30	-4.889	85.620	152.591	0.00	0.00	H
ATOM	11760	HCE	MET	B	30	-4.163	84.584	153.839	0.00	0.00	H
ATOM	11761	HCE	MET	B	30	-3.905	86.338	153.881	0.00	0.00	H
ATOM	11762	HCG	MET	B	30	-3.866	83.351	151.629	0.00	0.00	H
ATOM	11763	HCG	MET	B	30	-2.224	83.260	151.031	0.00	0.00	H
ATOM	11764	N	ASN	B	31	-3.693	84.574	146.526	0.00	0.00	N
ATOM	11765	CA	ASN	B	31	-4.119	84.767	145.152	0.00	0.00	C
ATOM	11766	C	ASN	B	31	-4.703	83.592	144.424	0.00	0.00	C
ATOM	11767	O	ASN	B	31	-5.665	83.776	143.639	0.00	0.00	O
ATOM	11768	CB	ASN	B	31	-2.931	85.270	144.284	0.00	0.00	C
ATOM	11769	CG	ASN	B	31	-2.318	86.513	144.758	0.00	0.00	C
ATOM	11770	ND2	ASN	B	31	-0.989	86.600	144.789	0.00	0.00	N
ATOM	11771	OD1	ASN	B	31	-3.001	87.480	145.146	0.00	0.00	O
ATOM	11772	HN	ASN	B	31	-2.906	85.047	146.833	0.00	0.00	H
ATOM	11773	HND2	ASN	B	31	-0.441	85.918	144.412	0.00	0.00	H
ATOM	11774	HND2	ASN	B	31	-0.527	87.313	145.226	0.00	0.00	H
ATOM	11775	HCA	ASN	B	31	-4.880	85.553	145.176	0.00	0.00	H
ATOM	11776	HCB	ASN	B	31	-2.171	84.484	144.222	0.00	0.00	H
ATOM	11777	HCB	ASN	B	31	-3.269	85.467	143.271	0.00	0.00	H
ATOM	11778	N	ALA	B	32	-4.212	82.337	144.567	0.00	0.00	N
ATOM	11779	CA	ALA	B	32	-4.610	81.184	143.804	0.00	0.00	C
ATOM	11780	C	ALA	B	32	-5.873	80.653	144.374	0.00	0.00	C
ATOM	11781	O	ALA	B	32	-6.842	80.374	143.625	0.00	0.00	O
ATOM	11782	CB	ALA	B	32	-3.478	80.128	143.827	0.00	0.00	C
ATOM	11783	HN	ALA	B	32	-3.670	82.148	145.333	0.00	0.00	H
ATOM	11784	HCA	ALA	B	32	-4.770	81.466	142.758	0.00	0.00	H
ATOM	11785	HCB	ALA	B	32	-3.308	79.745	144.834	0.00	0.00	H
ATOM	11786	HCB	ALA	B	32	-3.738	79.286	143.181	0.00	0.00	H
ATOM	11787	HCB	ALA	B	32	-2.547	80.568	143.462	0.00	0.00	H
ATOM	11788	N	ALA	B	33	-5.977	80.577	145.723	0.00	0.00	N
ATOM	11789	CA	ALA	B	33	-7.199	80.334	146.431	0.00	0.00	C
ATOM	11790	C	ALA	B	33	-8.262	81.319	146.060	0.00	0.00	C
ATOM	11791	O	ALA	B	33	-9.368	80.877	145.672	0.00	0.00	O
ATOM	11792	CB	ALA	B	33	-6.896	80.317	147.946	0.00	0.00	C
ATOM	11793	HN	ALA	B	33	-5.170	80.756	146.219	0.00	0.00	H
ATOM	11794	HCA	ALA	B	33	-7.545	79.330	146.164	0.00	0.00	H
ATOM	11795	HCB	ALA	B	33	-6.509	81.278	148.282	0.00	0.00	H
ATOM	11796	HCB	ALA	B	33	-7.802	80.088	148.506	0.00	0.00	H
ATOM	11797	HCB	ALA	B	33	-6.155	79.548	148.169	0.00	0.00	H
ATOM	11798	N	VAL	B	34	-8.036	82.658	146.048	0.00	0.00	N
ATOM	11799	CA	VAL	B	34	-8.960	83.662	145.563	0.00	0.00	C

ATOM	11839	CA	ALA	B	36	-10.298	79.402	142.382	0.00	0.00	C
ATOM	11840	C	ALA	B	36	-11.626	79.662	142.996	0.00	0.00	C
ATOM	11841	O	ALA	B	36	-12.640	79.351	142.332	0.00	0.00	O
ATOM	11842	CB	ALA	B	36	-9.528	78.265	143.074	0.00	0.00	C
ATOM	11843	HN	ALA	B	36	-8.607	80.511	142.790	0.00	0.00	H
ATOM	11844	HCA	ALA	B	36	-10.452	79.088	141.346	0.00	0.00	H
ATOM	11845	HCB	ALA	B	36	-9.237	78.546	144.088	0.00	0.00	H
ATOM	11846	HCB	ALA	B	36	-10.131	77.355	143.111	0.00	0.00	H
ATOM	11847	HCB	ALA	B	36	-8.627	78.063	142.493	0.00	0.00	H
ATOM	11848	N	VAL	B	37	-11.764	80.285	144.193	0.00	0.00	N
ATOM	11849	CA	VAL	B	37	-13.022	80.672	144.786	0.00	0.00	C
ATOM	11850	C	VAL	B	37	-13.846	81.465	143.826	0.00	0.00	C
ATOM	11851	O	VAL	B	37	-15.010	81.069	143.575	0.00	0.00	O
ATOM	11852	CB	VAL	B	37	-12.810	81.402	146.160	0.00	0.00	C
ATOM	11853	CG1	VAL	B	37	-14.109	82.043	146.733	0.00	0.00	C
ATOM	11854	CG2	VAL	B	37	-12.231	80.445	147.241	0.00	0.00	C
ATOM	11855	HN	VAL	B	37	-10.962	80.494	144.671	0.00	0.00	H
ATOM	11856	HCA	VAL	B	37	-13.558	79.743	144.996	0.00	0.00	H
ATOM	11857	HCB	VAL	B	37	-12.087	82.209	146.007	0.00	0.00	H
ATOM	11858	HCG1	VAL	B	37	-14.452	82.858	146.093	0.00	0.00	H
ATOM	11859	HCG1	VAL	B	37	-14.903	81.300	146.809	0.00	0.00	H
ATOM	11860	HCG1	VAL	B	37	-13.931	82.455	147.728	0.00	0.00	H
ATOM	11861	HCG2	VAL	B	37	-12.964	79.685	147.521	0.00	0.00	H
ATOM	11862	HCG2	VAL	B	37	-11.341	79.939	146.877	0.00	0.00	H
ATOM	11863	HCG2	VAL	B	37	-11.950	81.005	148.135	0.00	0.00	H
ATOM	11864	N	VAL	B	38	-13.346	82.554	143.188	0.00	0.00	N
ATOM	11865	CA	VAL	B	38	-14.065	83.338	142.207	0.00	0.00	C
ATOM	11866	C	VAL	B	38	-14.541	82.503	141.066	0.00	0.00	C
ATOM	11867	O	VAL	B	38	-15.769	82.443	140.801	0.00	0.00	O
ATOM	11868	CB	VAL	B	38	-13.220	84.574	141.738	0.00	0.00	C
ATOM	11869	CG1	VAL	B	38	-13.875	85.367	140.566	0.00	0.00	C
ATOM	11870	CG2	VAL	B	38	-12.938	85.565	142.904	0.00	0.00	C
ATOM	11871	HN	VAL	B	38	-12.445	82.805	143.407	0.00	0.00	H
ATOM	11872	HCA	VAL	B	38	-14.950	83.729	142.701	0.00	0.00	H
ATOM	11873	HCB	VAL	B	38	-12.254	84.202	141.382	0.00	0.00	H
ATOM	11874	HCG1	VAL	B	38	-13.934	84.753	139.666	0.00	0.00	H
ATOM	11875	HCG1	VAL	B	38	-14.884	85.689	140.834	0.00	0.00	H
ATOM	11876	HCG1	VAL	B	38	-13.285	86.252	140.316	0.00	0.00	H
ATOM	11877	HCG2	VAL	B	38	-12.525	85.053	143.772	0.00	0.00	H
ATOM	11878	HCG2	VAL	B	38	-12.217	86.318	142.586	0.00	0.00	H
ATOM	11879	HCG2	VAL	B	38	-13.850	86.077	143.212	0.00	0.00	H
ATOM	11880	N	ARG	B	39	-13.651	81.805	140.327	0.00	0.00	N
ATOM	11881	CA	ARG	B	39	-13.968	81.013	139.173	0.00	0.00	C
ATOM	11882	C	ARG	B	39	-14.986	79.961	139.466	0.00	0.00	C
ATOM	11883	O	ARG	B	39	-16.014	79.898	138.748	0.00	0.00	O
ATOM	11884	CB	ARG	B	39	-12.646	80.420	138.597	0.00	0.00	C
ATOM	11885	CG	ARG	B	39	-11.712	81.459	137.896	0.00	0.00	C
ATOM	11886	CD	ARG	B	39	-12.127	81.751	136.435	0.00	0.00	C
ATOM	11887	NE	ARG	B	39	-11.407	82.826	135.832	0.00	0.00	N
ATOM	11888	CZ	ARG	B	39	-10.354	82.748	135.019	0.00	0.00	C
ATOM	11889	NH1	ARG	B	39	-9.735	81.659	134.571	0.00	0.00	N
ATOM	11890	NH2	ARG	B	39	-9.943	83.933	134.605	0.00	0.00	N
ATOM	11891	HN	ARG	B	39	-12.733	81.841	140.602	0.00	0.00	H
ATOM	11892	HNE	ARG	B	39	-11.710	83.731	135.963	0.00	0.00	H
ATOM	11893	HNH1	ARG	B	39	-10.081	80.778	134.726	0.00	0.00	H
ATOM	11894	HNH1	ARG	B	39	-8.973	81.777	133.989	0.00	0.00	H
ATOM	11895	HNH2	ARG	B	39	-10.483	84.675	134.876	0.00	0.00	H
ATOM	11896	HNH2	ARG	B	39	-9.177	84.040	134.027	0.00	0.00	H
ATOM	11897	HCA	ARG	B	39	-14.396	81.685	138.422	0.00	0.00	H
ATOM	11898	HCB	ARG	B	39	-12.095	79.954	139.418	0.00	0.00	H
ATOM	11899	HCB	ARG	B	39	-12.886	79.626	137.884	0.00	0.00	H
ATOM	11900	HCD	ARG	B	39	-12.029	80.836	135.848	0.00	0.00	H
ATOM	11901	HCD	ARG	B	39	-13.176	82.039	136.427	0.00	0.00	H
ATOM	11902	HCG	ARG	B	39	-11.703	82.389	138.466	0.00	0.00	H
ATOM	11903	HCG	ARG	B	39	-10.692	81.066	137.886	0.00	0.00	H
ATOM	11904	N	VAL	B	40	-14.852	79.125	140.526	0.00	0.00	N
ATOM	11905	CA	VAL	B	40	-15.797	78.111	140.912	0.00	0.00	C
ATOM	11906	C	VAL	B	40	-17.093	78.745	141.281	0.00	0.00	C
ATOM	11907	O	VAL	B	40	-18.130	78.306	140.731	0.00	0.00	O
ATOM	11908	CB	VAL	B	40	-15.260	77.184	142.058	0.00	0.00	C
ATOM	11909	CG1	VAL	B	40	-16.239	76.008	142.361	0.00	0.00	C
ATOM	11910	CG2	VAL	B	40	-13.837	76.601	141.794	0.00	0.00	C
ATOM	11911	HN	VAL	B	40	-14.088	79.234	141.090	0.00	0.00	H
ATOM	11912	HCA	VAL	B	40	-15.949	77.469	140.040	0.00	0.00	H
ATOM	11913	HCB	VAL	B	40	-15.189	77.799	142.960	0.00	0.00	H
ATOM	11914	HCG1	VAL	B	40	-17.235	76.370	142.612	0.00	0.00	H
ATOM	11915	HCG1	VAL	B	40	-16.331	75.352	141.493	0.00	0.00	H
ATOM	11916	HCG1	VAL	B	40	-15.880	75.416	143.204	0.00	0.00	H
ATOM	11917	HCG2	VAL	B	40	-13.870	75.558	141.479	0.00	0.00	H
ATOM	11918	HCG2	VAL	B	40	-13.302	77.154	141.025	0.00	0.00	H

ATOM	11919	HCG2	VAL	B	40	-13.243	76.656	142.707	0.00	0.00	H
ATOM	11920	N	GLY	B	41	-17.166	79.791	142.146	0.00	0.00	N
ATOM	11921	CA	GLY	B	41	-18.353	80.505	142.525	0.00	0.00	C
ATOM	11922	C	GLY	B	41	-19.165	80.974	141.386	0.00	0.00	C
ATOM	11923	O	GLY	B	41	-20.378	80.651	141.324	0.00	0.00	O
ATOM	11924	HN	GLY	B	41	-16.361	80.117	142.555	0.00	0.00	H
ATOM	11925	HCA	GLY	B	41	-18.958	79.885	143.187	0.00	0.00	H
ATOM	11926	HCA	GLY	B	41	-18.043	81.379	143.097	0.00	0.00	H
ATOM	11927	N	ILE	B	42	-18.580	81.688	140.394	0.00	0.00	N
ATOM	11928	CA	ILE	B	42	-19.255	82.060	139.178	0.00	0.00	C
ATOM	11929	C	ILE	B	42	-19.703	80.831	138.449	0.00	0.00	C
ATOM	11930	O	ILE	B	42	-20.930	80.696	138.227	0.00	0.00	O
ATOM	11931	CB	ILE	B	42	-18.395	83.033	138.299	0.00	0.00	C
ATOM	11932	CG1	ILE	B	42	-17.978	84.357	139.029	0.00	0.00	C
ATOM	11933	CG2	ILE	B	42	-19.085	83.355	136.936	0.00	0.00	C
ATOM	11934	CD1	ILE	B	42	-19.107	85.373	139.336	0.00	0.00	C
ATOM	11935	HN	ILE	B	42	-17.655	81.927	140.506	0.00	0.00	H
ATOM	11936	HCA	ILE	B	42	-20.153	82.616	139.463	0.00	0.00	H
ATOM	11937	HCB	ILE	B	42	-17.462	82.508	138.072	0.00	0.00	H
ATOM	11938	HCD1	ILE	B	42	-19.555	85.747	138.415	0.00	0.00	H
ATOM	11939	HCD1	ILE	B	42	-19.884	84.920	139.951	0.00	0.00	H
ATOM	11940	HCD1	ILE	B	42	-18.694	86.223	139.882	0.00	0.00	H
ATOM	11941	HCG1	ILE	B	42	-17.494	84.112	139.974	0.00	0.00	H
ATOM	11942	HCG1	ILE	B	42	-17.225	84.868	138.421	0.00	0.00	H
ATOM	11943	HCG2	ILE	B	42	-19.109	82.470	136.298	0.00	0.00	H
ATOM	11944	HCG2	ILE	B	42	-20.111	83.691	137.093	0.00	0.00	H
ATOM	11945	HCG2	ILE	B	42	-18.547	84.139	136.400	0.00	0.00	H
ATOM	11946	N	PHE	B	43	-18.850	79.839	138.080	0.00	0.00	N
ATOM	11947	CA	PHE	B	43	-19.214	78.656	137.335	0.00	0.00	C
ATOM	11948	C	PHE	B	43	-20.410	77.947	137.880	0.00	0.00	C
ATOM	11949	O	PHE	B	43	-21.366	77.669	137.116	0.00	0.00	O
ATOM	11950	CB	PHE	B	43	-17.990	77.695	137.264	0.00	0.00	C
ATOM	11951	CG	PHE	B	43	-18.279	76.442	136.516	0.00	0.00	C
ATOM	11952	CD1	PHE	B	43	-18.257	76.428	135.102	0.00	0.00	C
ATOM	11953	CD2	PHE	B	43	-18.623	75.254	137.206	0.00	0.00	C
ATOM	11954	CE1	PHE	B	43	-18.573	75.254	134.395	0.00	0.00	C
ATOM	11955	CE2	PHE	B	43	-18.950	74.084	136.499	0.00	0.00	C
ATOM	11956	CZ	PHE	B	43	-18.921	74.084	135.094	0.00	0.00	C
ATOM	11957	HN	PHE	B	43	-17.924	79.924	138.321	0.00	0.00	H
ATOM	11958	HCA	PHE	B	43	-19.440	78.979	136.313	0.00	0.00	H
ATOM	11959	HCB	PHE	B	43	-17.147	78.203	136.791	0.00	0.00	H
ATOM	11960	HCB	PHE	B	43	-17.668	77.451	138.278	0.00	0.00	H
ATOM	11961	HCD1	PHE	B	43	-18.010	77.272	134.580	0.00	0.00	H
ATOM	11962	HCD2	PHE	B	43	-18.646	75.237	138.229	0.00	0.00	H
ATOM	11963	HCE1	PHE	B	43	-18.549	75.253	133.373	0.00	0.00	H
ATOM	11964	HCE2	PHE	B	43	-19.205	73.232	137.005	0.00	0.00	H
ATOM	11965	HCZ	PHE	B	43	-19.151	73.231	134.584	0.00	0.00	H
ATOM	11966	N	THR	B	44	-20.460	77.600	139.187	0.00	0.00	N
ATOM	11967	CA	THR	B	44	-21.552	76.903	139.818	0.00	0.00	C
ATOM	11968	C	THR	B	44	-22.822	77.681	139.907	0.00	0.00	C
ATOM	11969	O	THR	B	44	-23.846	77.064	140.295	0.00	0.00	O
ATOM	11970	CB	THR	B	44	-21.093	76.326	141.190	0.00	0.00	C
ATOM	11971	CG2	THR	B	44	-20.864	77.389	142.277	0.00	0.00	C
ATOM	11972	OG1	THR	B	44	-22.040	75.428	141.763	0.00	0.00	O
ATOM	11973	HN	THR	B	44	-19.703	77.845	139.720	0.00	0.00	H
ATOM	11974	HCA	THR	B	44	-21.760	76.031	139.198	0.00	0.00	H
ATOM	11975	HCB	THR	B	44	-20.162	75.768	141.037	0.00	0.00	H
ATOM	11976	HCG2	THR	B	44	-21.811	77.826	142.590	0.00	0.00	H
ATOM	11977	HCG2	THR	B	44	-20.375	76.929	143.134	0.00	0.00	H
ATOM	11978	HCG2	THR	B	44	-20.234	78.186	141.914	0.00	0.00	H
ATOM	11979	HOG1	THR	B	44	-22.450	74.905	141.059	0.00	0.00	H
ATOM	11980	N	GLY	B	45	-22.908	78.993	139.554	0.00	0.00	N
ATOM	11981	CA	GLY	B	45	-24.109	79.777	139.530	0.00	0.00	C
ATOM	11982	C	GLY	B	45	-24.200	80.879	140.512	0.00	0.00	C
ATOM	11983	O	GLY	B	45	-25.274	81.525	140.496	0.00	0.00	O
ATOM	11984	HN	GLY	B	45	-22.130	79.449	139.218	0.00	0.00	H
ATOM	11985	HCA	GLY	B	45	-24.183	80.214	138.533	0.00	0.00	H
ATOM	11986	HCA	GLY	B	45	-24.993	79.148	139.666	0.00	0.00	H
ATOM	11987	N	ALA	B	46	-23.223	81.229	141.386	0.00	0.00	N
ATOM	11988	CA	ALA	B	46	-23.377	82.183	142.455	0.00	0.00	C
ATOM	11989	C	ALA	B	46	-22.763	83.495	142.138	0.00	0.00	C
ATOM	11990	O	ALA	B	46	-21.954	83.601	141.187	0.00	0.00	O
ATOM	11991	CB	ALA	B	46	-22.750	81.595	143.745	0.00	0.00	C
ATOM	11992	HN	ALA	B	46	-22.336	80.875	141.286	0.00	0.00	H
ATOM	11993	HCA	ALA	B	46	-24.436	82.369	142.654	0.00	0.00	H
ATOM	11994	HCB	ALA	B	46	-23.228	80.654	144.008	0.00	0.00	H
ATOM	11995	HCB	ALA	B	46	-21.681	81.419	143.613	0.00	0.00	H
ATOM	11996	HCB	ALA	B	46	-22.888	82.282	144.582	0.00	0.00	H
ATOM	11997	N	ARG	B	47	-23.066	84.565	142.913	0.00	0.00	N
ATOM	11998	CA	ARG	B	47	-22.453	85.865	142.779	0.00	0.00	C

ATOM	11999	C	ARG	B	47	-21.378	86.053	143.792	0.00	0.00	C
ATOM	12000	O	ARG	B	47	-21.626	85.825	144.998	0.00	0.00	O
ATOM	12001	CB	ARG	B	47	-23.529	86.984	142.818	0.00	0.00	C
ATOM	12002	CG	ARG	B	47	-22.890	88.397	142.685	0.00	0.00	C
ATOM	12003	CD	ARG	B	47	-23.811	89.501	142.142	0.00	0.00	C
ATOM	12004	NE	ARG	B	47	-25.020	89.651	142.872	0.00	0.00	N
ATOM	12005	CZ	ARG	B	47	-25.837	90.699	142.740	0.00	0.00	C
ATOM	12006	NH1	ARG	B	47	-25.547	91.776	142.012	0.00	0.00	N
ATOM	12007	NH2	ARG	B	47	-26.996	90.653	143.376	0.00	0.00	N
ATOM	12008	HN	ARG	B	47	-23.725	84.405	143.603	0.00	0.00	H
ATOM	12009	HNE	ARG	B	47	-25.298	88.935	143.459	0.00	0.00	H
ATOM	12010	HNH1	ARG	B	47	-24.674	91.887	141.612	0.00	0.00	H
ATOM	12011	HNH1	ARG	B	47	-26.213	92.467	141.913	0.00	0.00	H
ATOM	12012	HNH2	ARG	B	47	-27.218	89.882	143.915	0.00	0.00	H
ATOM	12013	HNH2	ARG	B	47	-27.618	91.387	143.305	0.00	0.00	H
ATOM	12014	HCA	ARG	B	47	-21.986	85.949	141.792	0.00	0.00	H
ATOM	12015	HCB	ARG	B	47	-24.227	86.817	141.992	0.00	0.00	H
ATOM	12016	HCB	ARG	B	47	-24.095	86.924	143.752	0.00	0.00	H
ATOM	12017	HCD	ARG	B	47	-23.241	90.423	142.209	0.00	0.00	H
ATOM	12018	HCD	ARG	B	47	-24.045	89.304	141.091	0.00	0.00	H
ATOM	12019	HCG	ARG	B	47	-22.503	88.706	143.659	0.00	0.00	H
ATOM	12020	HCG	ARG	B	47	-22.037	88.355	141.999	0.00	0.00	H
ATOM	12021	N	VAL	B	48	-20.151	86.489	143.414	0.00	0.00	N
ATOM	12022	CA	VAL	B	48	-18.986	86.578	144.254	0.00	0.00	C
ATOM	12023	C	VAL	B	48	-18.621	87.998	144.527	0.00	0.00	C
ATOM	12024	O	VAL	B	48	-18.443	88.787	143.570	0.00	0.00	O
ATOM	12025	CB	VAL	B	48	-17.784	85.792	143.627	0.00	0.00	C
ATOM	12026	CG1	VAL	B	48	-16.602	85.709	144.641	0.00	0.00	C
ATOM	12027	CG2	VAL	B	48	-18.171	84.371	143.127	0.00	0.00	C
ATOM	12028	HN	VAL	B	48	-20.037	86.733	142.483	0.00	0.00	H
ATOM	12029	HCA	VAL	B	48	-19.197	86.096	145.207	0.00	0.00	H
ATOM	12030	HCB	VAL	B	48	-17.437	86.335	142.742	0.00	0.00	H
ATOM	12031	HCG1	VAL	B	48	-16.928	85.280	145.589	0.00	0.00	H
ATOM	12032	HCG1	VAL	B	48	-15.797	85.089	144.262	0.00	0.00	H
ATOM	12033	HCG1	VAL	B	48	-16.189	86.700	144.836	0.00	0.00	H
ATOM	12034	HCG2	VAL	B	48	-18.948	84.423	142.364	0.00	0.00	H
ATOM	12035	HCG2	VAL	B	48	-17.311	83.876	142.679	0.00	0.00	H
ATOM	12036	HCG2	VAL	B	48	-18.535	83.753	143.942	0.00	0.00	H
ATOM	12037	N	PHE	B	49	-18.435	88.416	145.801	0.00	0.00	N
ATOM	12038	CA	PHE	B	49	-17.928	89.702	146.221	0.00	0.00	C
ATOM	12039	C	PHE	B	49	-16.536	89.633	146.765	0.00	0.00	C
ATOM	12040	O	PHE	B	49	-16.258	88.806	147.665	0.00	0.00	O
ATOM	12041	CB	PHE	B	49	-18.918	90.297	147.266	0.00	0.00	C
ATOM	12042	CG	PHE	B	49	-20.244	90.618	146.669	0.00	0.00	C
ATOM	12043	CD1	PHE	B	49	-20.414	91.794	145.902	0.00	0.00	C
ATOM	12044	CD2	PHE	B	49	-21.350	89.751	146.835	0.00	0.00	C
ATOM	12045	CE1	PHE	B	49	-21.653	92.092	145.306	0.00	0.00	C
ATOM	12046	CE2	PHE	B	49	-22.592	90.052	146.245	0.00	0.00	C
ATOM	12047	CZ	PHE	B	49	-22.743	91.221	145.478	0.00	0.00	C
ATOM	12048	HN	PHE	B	49	-18.722	87.794	146.473	0.00	0.00	H
ATOM	12049	HCA	PHE	B	49	-17.900	90.391	145.373	0.00	0.00	H
ATOM	12050	HCB	PHE	B	49	-19.035	89.593	148.095	0.00	0.00	H
ATOM	12051	HCB	PHE	B	49	-18.499	91.212	147.694	0.00	0.00	H
ATOM	12052	HCD1	PHE	B	49	-19.633	92.441	145.771	0.00	0.00	H
ATOM	12053	HCD2	PHE	B	49	-21.256	88.890	147.380	0.00	0.00	H
ATOM	12054	HCE1	PHE	B	49	-21.763	92.942	144.748	0.00	0.00	H
ATOM	12055	HCE2	PHE	B	49	-23.385	89.418	146.368	0.00	0.00	H
ATOM	12056	HCZ	PHE	B	49	-23.644	91.437	145.045	0.00	0.00	H
ATOM	12057	N	PHE	B	50	-15.596	90.523	146.356	0.00	0.00	N
ATOM	12058	CA	PHE	B	50	-14.291	90.731	146.924	0.00	0.00	C
ATOM	12059	C	PHE	B	50	-14.438	91.620	148.111	0.00	0.00	C
ATOM	12060	O	PHE	B	50	-14.949	92.757	147.918	0.00	0.00	O
ATOM	12061	CB	PHE	B	50	-13.323	91.469	145.940	0.00	0.00	C
ATOM	12062	CG	PHE	B	50	-12.828	90.791	144.715	0.00	0.00	C
ATOM	12063	CD1	PHE	B	50	-12.116	89.573	144.794	0.00	0.00	C
ATOM	12064	CD2	PHE	B	50	-12.943	91.425	143.453	0.00	0.00	C
ATOM	12065	CE1	PHE	B	50	-11.518	89.016	143.647	0.00	0.00	C
ATOM	12066	CE2	PHE	B	50	-12.333	90.876	142.312	0.00	0.00	C
ATOM	12067	CZ	PHE	B	50	-11.621	89.670	142.407	0.00	0.00	C
ATOM	12068	HN	PHE	B	50	-15.872	91.173	145.716	0.00	0.00	H
ATOM	12069	HCA	PHE	B	50	-13.843	89.782	147.225	0.00	0.00	H
ATOM	12070	HCB	PHE	B	50	-13.809	92.401	145.646	0.00	0.00	H
ATOM	12071	HCB	PHE	B	50	-12.418	91.748	146.492	0.00	0.00	H
ATOM	12072	HCD1	PHE	B	50	-12.002	89.098	145.690	0.00	0.00	H
ATOM	12073	HCD2	PHE	B	50	-13.453	92.307	143.356	0.00	0.00	H
ATOM	12074	HCE1	PHE	B	50	-10.995	88.144	143.717	0.00	0.00	H
ATOM	12075	HCE2	PHE	B	50	-12.401	91.361	141.415	0.00	0.00	H
ATOM	12076	HCZ	PHE	B	50	-11.175	89.272	141.577	0.00	0.00	H
ATOM	12077	N	VAL	B	51	-13.981	91.247	149.335	0.00	0.00	N
ATOM	12078	CA	VAL	B	51	-13.895	92.118	150.485	0.00	0.00	C



ATOM	12079	C	VAL	B	51	-12.468	92.508	150.702	0.00	0.00	C
ATOM	12080	O	VAL	B	51	-11.635	91.609	150.967	0.00	0.00	O
ATOM	12081	CB	VAL	B	51	-14.548	91.437	151.734	0.00	0.00	C
ATOM	12082	CG1	VAL	B	51	-14.559	92.401	152.950	0.00	0.00	C
ATOM	12083	CG2	VAL	B	51	-16.000	90.952	151.454	0.00	0.00	C
ATOM	12084	HN	VAL	B	51	-13.703	90.330	149.456	0.00	0.00	H
ATOM	12085	HCA	VAL	B	51	-14.462	93.035	150.302	0.00	0.00	H
ATOM	12086	HCB	VAL	B	51	-13.955	90.557	152.006	0.00	0.00	H
ATOM	12087	HCG1	VAL	B	51	-15.072	93.323	152.682	0.00	0.00	H
ATOM	12088	HCG1	VAL	B	51	-15.079	91.956	153.796	0.00	0.00	H
ATOM	12089	HCG1	VAL	B	51	-13.543	92.642	153.268	0.00	0.00	H
ATOM	12090	HCG2	VAL	B	51	-16.007	90.204	150.659	0.00	0.00	H
ATOM	12091	HCG2	VAL	B	51	-16.430	90.494	152.347	0.00	0.00	H
ATOM	12092	HCG2	VAL	B	51	-16.635	91.787	151.150	0.00	0.00	H
ATOM	12093	N	HIS	B	52	-12.064	93.802	150.586	0.00	0.00	N
ATOM	12094	CA	HIS	B	52	-10.686	94.257	150.586	0.00	0.00	C
ATOM	12095	C	HIS	B	52	-10.115	94.589	151.915	0.00	0.00	C
ATOM	12096	O	HIS	B	52	-10.848	94.891	152.887	0.00	0.00	O
ATOM	12097	CB	HIS	B	52	-10.440	95.445	149.603	0.00	0.00	C
ATOM	12098	CG	HIS	B	52	-10.949	95.185	148.246	0.00	0.00	C
ATOM	12099	CD2	HIS	B	52	-10.259	94.998	147.052	0.00	0.00	C
ATOM	12100	ND1	HIS	B	52	-12.242	95.081	147.950	0.00	0.00	N
ATOM	12101	CE1	HIS	B	52	-12.366	94.781	146.662	0.00	0.00	C
ATOM	12102	NE2	HIS	B	52	-11.156	94.759	146.078	0.00	0.00	N
ATOM	12103	HN	HIS	B	52	-12.751	94.448	150.427	0.00	0.00	H
ATOM	12104	HND1	HIS	B	52	-12.947	95.213	148.575	0.00	0.00	H
ATOM	12105	HCA	HIS	B	52	-10.077	93.436	150.223	0.00	0.00	H
ATOM	12106	HCB	HIS	B	52	-10.924	96.348	149.979	0.00	0.00	H
ATOM	12107	HCB	HIS	B	52	-9.368	95.651	149.534	0.00	0.00	H
ATOM	12108	HCD2	HIS	B	52	-9.245	95.030	146.933	0.00	0.00	H
ATOM	12109	HCE1	HIS	B	52	-13.252	94.613	146.199	0.00	0.00	H
ATOM	12110	N	GLU	B	53	-8.764	94.578	152.040	0.00	0.00	N
ATOM	12111	CA	GLU	B	53	-8.030	94.934	153.229	0.00	0.00	C
ATOM	12112	C	GLU	B	53	-8.382	94.030	154.367	0.00	0.00	C
ATOM	12113	O	GLU	B	53	-8.529	94.437	155.548	0.00	0.00	O
ATOM	12114	CB	GLU	B	53	-8.133	96.464	153.516	0.00	0.00	C
ATOM	12115	CG	GLU	B	53	-7.604	97.390	152.382	0.00	0.00	C
ATOM	12116	CD	GLU	B	53	-6.165	97.253	152.112	0.00	0.00	C
ATOM	12117	OE1	GLU	B	53	-5.326	97.471	153.011	0.00	0.00	O
ATOM	12118	OE2	GLU	B	53	-5.756	96.930	150.976	0.00	0.00	O
ATOM	12119	HN	GLU	B	53	-8.273	94.281	151.263	0.00	0.00	H
ATOM	12120	HCA	GLU	B	53	-6.983	94.745	153.015	0.00	0.00	H
ATOM	12121	HCB	GLU	B	53	-9.178	96.722	153.687	0.00	0.00	H
ATOM	12122	HCB	GLU	B	53	-7.581	96.697	154.430	0.00	0.00	H
ATOM	12123	HCG	GLU	B	53	-8.165	97.202	151.464	0.00	0.00	H
ATOM	12124	HCG	GLU	B	53	-7.780	98.429	152.667	0.00	0.00	H
ATOM	12125	N	GLY	B	54	-8.480	92.704	154.114	0.00	0.00	N
ATOM	12126	CA	GLY	B	54	-9.011	91.697	154.986	0.00	0.00	C
ATOM	12127	C	GLY	B	54	-10.247	92.062	155.708	0.00	0.00	C
ATOM	12128	O	GLY	B	54	-11.285	92.318	155.055	0.00	0.00	O
ATOM	12129	HN	GLY	B	54	-8.038	92.413	153.306	0.00	0.00	H
ATOM	12130	HCA	GLY	B	54	-9.253	90.824	154.382	0.00	0.00	H
ATOM	12131	HCA	GLY	B	54	-8.228	91.412	155.691	0.00	0.00	H
ATOM	12132	N	TYR	B	55	-10.247	92.134	157.059	0.00	0.00	N
ATOM	12133	CA	TYR	B	55	-11.382	92.501	157.856	0.00	0.00	C
ATOM	12134	C	TYR	B	55	-11.695	93.958	157.809	0.00	0.00	C
ATOM	12135	O	TYR	B	55	-12.820	94.319	158.235	0.00	0.00	O
ATOM	12136	CB	TYR	B	55	-11.182	91.994	159.321	0.00	0.00	C
ATOM	12137	CG	TYR	B	55	-11.271	90.512	159.496	0.00	0.00	C
ATOM	12138	CD1	TYR	B	55	-12.484	89.836	159.227	0.00	0.00	C
ATOM	12139	CD2	TYR	B	55	-10.180	89.750	159.980	0.00	0.00	C
ATOM	12140	CE1	TYR	B	55	-12.601	88.446	159.418	0.00	0.00	C
ATOM	12141	CE2	TYR	B	55	-10.309	88.363	160.209	0.00	0.00	C
ATOM	12142	CZ	TYR	B	55	-11.524	87.707	159.938	0.00	0.00	C
ATOM	12143	OH	TYR	B	55	-11.710	86.388	160.190	0.00	0.00	O
ATOM	12144	HN	TYR	B	55	-9.412	91.951	157.515	0.00	0.00	H
ATOM	12145	HCA	TYR	B	55	-12.261	92.002	157.442	0.00	0.00	H
ATOM	12146	HCB	TYR	B	55	-10.224	92.369	159.691	0.00	0.00	H
ATOM	12147	HCB	TYR	B	55	-11.953	92.428	159.965	0.00	0.00	H
ATOM	12148	HCD1	TYR	B	55	-13.300	90.357	158.903	0.00	0.00	H
ATOM	12149	HCD2	TYR	B	55	-9.285	90.202	160.184	0.00	0.00	H
ATOM	12150	HCE1	TYR	B	55	-13.484	87.976	159.205	0.00	0.00	H
ATOM	12151	HCE2	TYR	B	55	-9.518	87.835	160.574	0.00	0.00	H
ATOM	12152	HOH	TYR	B	55	-11.080	85.820	160.661	0.00	0.00	H
ATOM	12153	N	GLN	B	56	-10.877	94.910	157.289	0.00	0.00	N
ATOM	12154	CA	GLN	B	56	-11.174	96.323	157.321	0.00	0.00	C
ATOM	12155	C	GLN	B	56	-12.309	96.627	156.460	0.00	0.00	C
ATOM	12156	O	GLN	B	56	-13.255	97.266	156.913	0.00	0.00	O
ATOM	12157	CB	GLN	B	56	-9.904	97.128	156.950	0.00	0.00	C
ATOM	12158	CG	GLN	B	56	-10.010	98.662	157.175	0.00	0.00	C

ATOM	12159	CD	GLN	B	56	-8.775	99.362	156.773	0.00	0.00		C
ATOM	12160	NE2	GLN	B	56	-7.954	99.922	157.667	0.00	0.00		N
ATOM	12161	OE1	GLN	B	56	-8.450	99.445	155.570	0.00	0.00		O
ATOM	12162	HN	GLN	B	56	-10.080	94.648	156.814	0.00	0.00		H
ATOM	12163	HNE2	GLN	B	56	-8.158	99.883	158.611	0.00	0.00		H
ATOM	12164	HNE2	GLN	B	56	-7.150	100.364	157.356	0.00	0.00		H
ATOM	12165	HCA	GLN	B	56	-11.427	96.591	158.352	0.00	0.00		H
ATOM	12166	HCN	GLN	B	56	-9.088	96.756	157.566	0.00	0.00		H
ATOM	12167	HCN	GLN	B	56	-9.652	96.931	155.911	0.00	0.00		H
ATOM	12168	HCG	GLN	B	56	-10.837	99.075	156.594	0.00	0.00		H
ATOM	12169	HCG	GLN	B	56	-10.215	98.856	158.231	0.00	0.00		H
ATOM	12170	N	GLY	B	57	-12.355	96.137	155.232	0.00	0.00		N
ATOM	12171	CA	GLY	B	57	-13.496	96.183	154.381	0.00	0.00		C
ATOM	12172	C	GLY	B	57	-14.636	95.344	154.781	0.00	0.00		C
ATOM	12173	O	GLY	B	57	-15.636	95.383	154.031	0.00	0.00		O
ATOM	12174	HN	GLY	B	57	-11.591	95.668	154.865	0.00	0.00		H
ATOM	12175	HCA	GLY	B	57	-13.834	97.217	154.299	0.00	0.00		H
ATOM	12176	HCA	GLY	B	57	-13.187	95.834	153.399	0.00	0.00		H
ATOM	12177	N	LEU	B	58	-14.653	94.599	155.912	0.00	0.00		N
ATOM	12178	CA	LEU	B	58	-15.812	93.933	156.426	0.00	0.00		C
ATOM	12179	C	LEU	B	58	-16.363	94.829	157.468	0.00	0.00		C
ATOM	12180	O	LEU	B	58	-17.555	95.202	157.385	0.00	0.00		O
ATOM	12181	CB	LEU	B	58	-15.440	92.524	156.974	0.00	0.00		C
ATOM	12182	CG	LEU	B	58	-16.670	91.592	157.217	0.00	0.00		C
ATOM	12183	CD1	LEU	B	58	-17.248	91.008	155.900	0.00	0.00		C
ATOM	12184	CD2	LEU	B	58	-16.324	90.439	158.198	0.00	0.00		C
ATOM	12185	HN	LEU	B	58	-13.885	94.576	156.489	0.00	0.00		H
ATOM	12186	HCA	LEU	B	58	-16.562	93.808	155.641	0.00	0.00		H
ATOM	12187	HCN	LEU	B	58	-14.761	92.042	156.271	0.00	0.00		H
ATOM	12188	HCN	LEU	B	58	-14.885	92.647	157.908	0.00	0.00		H
ATOM	12189	HCD1	LEU	B	58	-16.508	90.402	155.379	0.00	0.00		H
ATOM	12190	HCD1	LEU	B	58	-18.104	90.378	156.126	0.00	0.00		H
ATOM	12191	HCD1	LEU	B	58	-17.589	91.796	155.228	0.00	0.00		H
ATOM	12192	HCD2	LEU	B	58	-15.562	89.787	157.778	0.00	0.00		H
ATOM	12193	HCD2	LEU	B	58	-15.952	90.838	159.142	0.00	0.00		H
ATOM	12194	HCD2	LEU	B	58	-17.209	89.837	158.410	0.00	0.00		H
ATOM	12195	HCG	LEU	B	58	-17.462	92.184	157.681	0.00	0.00		H
ATOM	12196	N	VAL	B	59	-15.543	95.298	158.442	0.00	0.00		N
ATOM	12197	CA	VAL	B	59	-15.895	96.247	159.459	0.00	0.00		C
ATOM	12198	C	VAL	B	59	-16.461	97.480	158.843	0.00	0.00		C
ATOM	12199	O	VAL	B	59	-17.643	97.779	159.127	0.00	0.00		O
ATOM	12200	CB	VAL	B	59	-14.666	96.519	160.399	0.00	0.00		C
ATOM	12201	CG1	VAL	B	59	-14.875	97.712	161.378	0.00	0.00		C
ATOM	12202	CG2	VAL	B	59	-14.298	95.255	161.229	0.00	0.00		C
ATOM	12203	HN	VAL	B	59	-14.638	94.985	158.414	0.00	0.00		H
ATOM	12204	HCA	VAL	B	59	-16.678	95.788	160.073	0.00	0.00		H
ATOM	12205	HCN	VAL	B	59	-13.804	96.769	159.770	0.00	0.00		H
ATOM	12206	HCG1	VAL	B	59	-14.987	98.647	160.828	0.00	0.00		H
ATOM	12207	HCG1	VAL	B	59	-15.764	97.558	161.992	0.00	0.00		H
ATOM	12208	HCG1	VAL	B	59	-14.012	97.829	162.036	0.00	0.00		H
ATOM	12209	HCG2	VAL	B	59	-14.117	94.399	160.578	0.00	0.00		H
ATOM	12210	HCG2	VAL	B	59	-13.391	95.429	161.810	0.00	0.00		H
ATOM	12211	HCG2	VAL	B	59	-15.107	94.998	161.916	0.00	0.00		H
ATOM	12212	N	ASP	B	60	-15.769	98.252	157.971	0.00	0.00		N
ATOM	12213	CA	ASP	B	60	-16.244	99.511	157.457	0.00	0.00		C
ATOM	12214	C	ASP	B	60	-17.086	99.307	156.244	0.00	0.00		C
ATOM	12215	O	ASP	B	60	-18.317	99.547	156.326	0.00	0.00		O
ATOM	12216	CB	ASP	B	60	-15.038	100.475	157.275	0.00	0.00		C
ATOM	12217	CG	ASP	B	60	-14.378	100.771	158.563	0.00	0.00		C
ATOM	12218	OD1	ASP	B	60	-15.037	101.183	159.550	0.00	0.00		O
ATOM	12219	OD2	ASP	B	60	-13.149	100.595	158.702	0.00	0.00		O
ATOM	12220	HN	ASP	B	60	-14.917	97.933	157.667	0.00	0.00		H
ATOM	12221	HCA	ASP	B	60	-16.891	99.985	158.205	0.00	0.00		H
ATOM	12222	HCN	ASP	B	60	-14.315	100.043	156.577	0.00	0.00		H
ATOM	12223	HCN	ASP	B	60	-15.385	101.421	156.854	0.00	0.00		H
ATOM	12224	N	GLY	B	61	-16.555	98.834	155.090	0.00	0.00		N
ATOM	12225	CA	GLY	B	61	-17.298	98.386	153.942	0.00	0.00		C
ATOM	12226	C	GLY	B	61	-17.308	99.286	152.772	0.00	0.00		C
ATOM	12227	O	GLY	B	61	-16.232	99.779	152.359	0.00	0.00		O
ATOM	12228	HN	GLY	B	61	-15.591	98.745	155.062	0.00	0.00		H
ATOM	12229	HCA	GLY	B	61	-16.853	97.456	153.609	0.00	0.00		H
ATOM	12230	HCA	GLY	B	61	-18.322	98.148	154.221	0.00	0.00		H
ATOM	12231	N	GLY	B	62	-18.474	99.502	152.116	0.00	0.00		N
ATOM	12232	CA	GLY	B	62	-18.678	100.370	150.990	0.00	0.00		C
ATOM	12233	C	GLY	B	62	-17.677	100.246	149.907	0.00	0.00		C
ATOM	12234	O	GLY	B	62	-17.644	99.213	149.194	0.00	0.00		O
ATOM	12235	HN	GLY	B	62	-19.254	99.050	152.476	0.00	0.00		H
ATOM	12236	HCA	GLY	B	62	-19.661	100.165	150.567	0.00	0.00		H
ATOM	12237	HCA	GLY	B	62	-18.702	101.397	151.363	0.00	0.00		H
ATOM	12238	N	ASP	B	63	-16.762	101.231	149.765	0.00	0.00		N

ATOM	12239	CA	ASP	B	63	-15.666	101.278	148.838	0.00	0.00		C
ATOM	12240	C	ASP	B	63	-14.825	100.044	148.818	0.00	0.00		C
ATOM	12241	O	ASP	B	63	-14.185	99.764	147.777	0.00	0.00		O
ATOM	12242	CB	ASP	B	63	-14.837	102.542	149.219	0.00	0.00		C
ATOM	12243	CG	ASP	B	63	-13.746	102.861	148.285	0.00	0.00		C
ATOM	12244	OD1	ASP	B	63	-13.988	103.147	147.094	0.00	0.00		O
ATOM	12245	OD2	ASP	B	63	-12.556	102.887	148.662	0.00	0.00		O
ATOM	12246	HN	ASP	B	63	-16.857	101.985	150.366	0.00	0.00		H
ATOM	12247	HCA	ASP	B	63	-16.093	101.418	147.840	0.00	0.00		H
ATOM	12248	HCB	ASP	B	63	-15.492	103.416	149.246	0.00	0.00		H
ATOM	12249	HCB	ASP	B	63	-14.421	102.411	150.222	0.00	0.00		H
ATOM	12250	N	HSE	B	64	-14.767	99.220	149.892	0.00	0.00		N
ATOM	12251	CA	HSE	B	64	-13.976	98.028	149.998	0.00	0.00		C
ATOM	12252	C	HSE	B	64	-14.753	96.781	149.727	0.00	0.00		C
ATOM	12253	O	HSE	B	64	-14.179	95.685	149.941	0.00	0.00		O
ATOM	12254	CB	HSE	B	64	-13.337	98.019	151.414	0.00	0.00		C
ATOM	12255	CG	HSE	B	64	-12.436	99.152	151.706	0.00	0.00		C
ATOM	12256	CD2	HSE	B	64	-11.076	99.082	151.987	0.00	0.00		C
ATOM	12257	ND1	HSE	B	64	-12.798	100.444	151.778	0.00	0.00		N
ATOM	12258	CE1	HSE	B	64	-11.699	101.154	152.083	0.00	0.00		C
ATOM	12259	NE2	HSE	B	64	-10.652	100.329	152.216	0.00	0.00		N
ATOM	12260	HN	HSE	B	64	-15.281	99.457	150.669	0.00	0.00		H
ATOM	12261	HNE2	HSE	B	64	-9.746	100.592	152.443	0.00	0.00		H
ATOM	12262	HCA	HSE	B	64	-13.156	98.041	149.273	0.00	0.00		H
ATOM	12263	HCB	HSE	B	64	-14.135	98.023	152.156	0.00	0.00		H
ATOM	12264	HCB	HSE	B	64	-12.763	97.100	151.532	0.00	0.00		H
ATOM	12265	HCD2	HSE	B	64	-10.506	98.237	152.019	0.00	0.00		H
ATOM	12266	HCE1	HSE	B	64	-11.669	102.170	152.199	0.00	0.00		H
ATOM	12267	N	ILE	B	65	-16.018	96.779	149.232	0.00	0.00		N
ATOM	12268	CA	ILE	B	65	-16.753	95.614	148.785	0.00	0.00		C
ATOM	12269	C	ILE	B	65	-16.987	95.755	147.316	0.00	0.00		C
ATOM	12270	O	ILE	B	65	-17.687	96.718	146.924	0.00	0.00		O
ATOM	12271	CB	ILE	B	65	-18.069	95.430	149.625	0.00	0.00		C
ATOM	12272	CG1	ILE	B	65	-17.748	95.290	151.152	0.00	0.00		C
ATOM	12273	CG2	ILE	B	65	-18.900	94.211	149.117	0.00	0.00		C
ATOM	12274	CD1	ILE	B	65	-18.974	95.271	152.098	0.00	0.00		C
ATOM	12275	HN	ILE	B	65	-16.485	97.618	149.176	0.00	0.00		H
ATOM	12276	HCA	ILE	B	65	-16.165	94.708	148.937	0.00	0.00		H
ATOM	12277	HCB	ILE	B	65	-18.680	96.330	149.493	0.00	0.00		H
ATOM	12278	HCD1	ILE	B	65	-19.625	96.125	151.903	0.00	0.00		H
ATOM	12279	HCD1	ILE	B	65	-19.545	94.350	151.978	0.00	0.00		H
ATOM	12280	HCD1	ILE	B	65	-18.637	95.322	153.136	0.00	0.00		H
ATOM	12281	HCG1	ILE	B	65	-17.162	94.383	151.322	0.00	0.00		H
ATOM	12282	HCG1	ILE	B	65	-17.130	96.134	151.465	0.00	0.00		H
ATOM	12283	HCG2	ILE	B	65	-19.132	94.306	148.055	0.00	0.00		H
ATOM	12284	HCG2	ILE	B	65	-18.346	93.282	149.269	0.00	0.00		H
ATOM	12285	HCG2	ILE	B	65	-19.850	94.139	149.645	0.00	0.00		H
ATOM	12286	N	ARG	B	66	-16.454	94.881	146.416	0.00	0.00		N
ATOM	12287	CA	ARG	B	66	-16.609	94.973	144.970	0.00	0.00		C
ATOM	12288	C	ARG	B	66	-17.026	93.683	144.344	0.00	0.00		C
ATOM	12289	O	ARG	B	66	-16.414	92.632	144.638	0.00	0.00		O
ATOM	12290	CB	ARG	B	66	-15.315	95.488	144.264	0.00	0.00		C
ATOM	12291	CG	ARG	B	66	-14.758	96.834	144.816	0.00	0.00		C
ATOM	12292	CD	ARG	B	66	-13.547	97.396	144.026	0.00	0.00		C
ATOM	12293	NE	ARG	B	66	-12.455	96.472	143.991	0.00	0.00		N
ATOM	12294	CZ	ARG	B	66	-11.757	96.066	142.929	0.00	0.00		C
ATOM	12295	NH1	ARG	B	66	-11.907	96.483	141.682	0.00	0.00		N
ATOM	12296	NH2	ARG	B	66	-10.836	95.164	143.210	0.00	0.00		N
ATOM	12297	HN	ARG	B	66	-15.935	94.162	146.798	0.00	0.00		H
ATOM	12298	HNE	ARG	B	66	-12.153	96.057	144.799	0.00	0.00		H
ATOM	12299	HNH1	ARG	B	66	-12.574	97.145	141.470	0.00	0.00		H
ATOM	12300	HNH1	ARG	B	66	-11.344	96.122	140.986	0.00	0.00		H
ATOM	12301	HNH2	ARG	B	66	-10.784	94.900	144.128	0.00	0.00		H
ATOM	12302	HNH2	ARG	B	66	-10.258	94.793	142.533	0.00	0.00		H
ATOM	12303	HCA	ARG	B	66	-17.390	95.700	144.727	0.00	0.00		H
ATOM	12304	HCB	ARG	B	66	-14.541	94.721	144.322	0.00	0.00		H
ATOM	12305	HCB	ARG	B	66	-15.536	95.630	143.201	0.00	0.00		H
ATOM	12306	HCD	ARG	B	66	-13.880	97.675	143.023	0.00	0.00		H
ATOM	12307	HCD	ARG	B	66	-13.201	98.307	144.522	0.00	0.00		H
ATOM	12308	HCG	ARG	B	66	-15.556	97.582	144.787	0.00	0.00		H
ATOM	12309	HCG	ARG	B	66	-14.468	96.715	145.862	0.00	0.00		H
ATOM	12310	N	GLU	B	67	-17.997	93.637	143.398	0.00	0.00		N
ATOM	12311	CA	GLU	B	67	-18.411	92.466	142.660	0.00	0.00		C
ATOM	12312	C	GLU	B	67	-17.294	91.904	141.839	0.00	0.00		C
ATOM	12313	O	GLU	B	67	-16.697	92.647	141.023	0.00	0.00		O
ATOM	12314	CB	GLU	B	67	-19.665	92.834	141.803	0.00	0.00		C
ATOM	12315	CG	GLU	B	67	-20.395	91.610	141.174	0.00	0.00		C
ATOM	12316	CD	GLU	B	67	-21.609	91.954	140.397	0.00	0.00		C
ATOM	12317	OE1	GLU	B	67	-22.668	92.366	140.932	0.00	0.00		O
ATOM	12318	OE2	GLU	B	67	-21.636	91.786	139.159	0.00	0.00		O

ATOM	12319	HN	GLU	B	67	-18.431	94.475	143.178	0.00	0.00	H
ATOM	12320	HCA	GLU	B	67	-18.726	91.711	143.386	0.00	0.00	H
ATOM	12321	HCB	GLU	B	67	-20.383	93.360	142.440	0.00	0.00	H
ATOM	12322	HCB	GLU	B	67	-19.367	93.524	141.006	0.00	0.00	H
ATOM	12323	HCG	GLU	B	67	-19.696	91.086	140.516	0.00	0.00	H
ATOM	12324	HCG	GLU	B	67	-20.686	90.913	141.961	0.00	0.00	H
ATOM	12325	N	ALA	B	68	-16.924	90.606	141.963	0.00	0.00	N
ATOM	12326	CA	ALA	B	68	-15.864	89.939	141.259	0.00	0.00	C
ATOM	12327	C	ALA	B	68	-16.376	89.256	140.042	0.00	0.00	C
ATOM	12328	O	ALA	B	68	-17.542	88.792	140.049	0.00	0.00	O
ATOM	12329	CB	ALA	B	68	-15.217	88.913	142.222	0.00	0.00	C
ATOM	12330	HN	ALA	B	68	-17.446	90.050	142.538	0.00	0.00	H
ATOM	12331	HCA	ALA	B	68	-15.093	90.658	140.968	0.00	0.00	H
ATOM	12332	HCB	ALA	B	68	-14.919	89.395	143.153	0.00	0.00	H
ATOM	12333	HCB	ALA	B	68	-15.917	88.116	142.466	0.00	0.00	H
ATOM	12334	HCB	ALA	B	68	-14.332	88.466	141.764	0.00	0.00	H
ATOM	12335	N	THR	B	69	-15.600	89.118	138.939	0.00	0.00	N
ATOM	12336	CA	THR	B	69	-16.021	88.506	137.701	0.00	0.00	C
ATOM	12337	C	THR	B	69	-14.947	87.669	137.107	0.00	0.00	C
ATOM	12338	O	THR	B	69	-13.778	87.717	137.552	0.00	0.00	O
ATOM	12339	CB	THR	B	69	-16.586	89.593	136.734	0.00	0.00	C
ATOM	12340	CG2	THR	B	69	-15.543	90.616	136.227	0.00	0.00	C
ATOM	12341	OG1	THR	B	69	-17.263	88.996	135.627	0.00	0.00	O
ATOM	12342	HN	THR	B	69	-14.697	89.442	138.969	0.00	0.00	H
ATOM	12343	HCA	THR	B	69	-16.839	87.808	137.906	0.00	0.00	H
ATOM	12344	HCB	THR	B	69	-17.354	90.150	137.281	0.00	0.00	H
ATOM	12345	HCG2	THR	B	69	-14.723	90.114	135.714	0.00	0.00	H
ATOM	12346	HCG2	THR	B	69	-16.012	91.314	135.531	0.00	0.00	H
ATOM	12347	HCG2	THR	B	69	-15.136	91.186	137.063	0.00	0.00	H
ATOM	12348	HOG1	THR	B	69	-16.610	88.902	134.913	0.00	0.00	H
ATOM	12349	N	TRP	B	70	-15.235	86.844	136.076	0.00	0.00	N
ATOM	12350	CA	TRP	B	70	-14.370	85.848	135.495	0.00	0.00	C
ATOM	12351	C	TRP	B	70	-13.012	86.372	135.162	0.00	0.00	C
ATOM	12352	O	TRP	B	70	-11.964	85.778	135.526	0.00	0.00	O
ATOM	12353	CB	TRP	B	70	-15.087	85.285	134.228	0.00	0.00	C
ATOM	12354	CG	TRP	B	70	-14.551	83.971	133.826	0.00	0.00	C
ATOM	12355	CD1	TRP	B	70	-13.556	83.710	132.882	0.00	0.00	C
ATOM	12356	CD2	TRP	B	70	-14.920	82.733	134.344	0.00	0.00	C
ATOM	12357	CE2	TRP	B	70	-14.123	81.773	133.728	0.00	0.00	C
ATOM	12358	CE3	TRP	B	70	-15.869	82.374	135.316	0.00	0.00	C
ATOM	12359	NE1	TRP	B	70	-13.341	82.380	132.825	0.00	0.00	N
ATOM	12360	CZ2	TRP	B	70	-14.200	80.424	134.103	0.00	0.00	C
ATOM	12361	CZ3	TRP	B	70	-15.996	81.013	135.660	0.00	0.00	C
ATOM	12362	CH2	TRP	B	70	-15.154	80.044	135.072	0.00	0.00	C
ATOM	12363	HN	TRP	B	70	-16.126	86.946	135.713	0.00	0.00	H
ATOM	12364	HNE1	TRP	B	70	-12.686	81.937	132.261	0.00	0.00	H
ATOM	12365	HCA	TRP	B	70	-14.266	85.046	136.234	0.00	0.00	H
ATOM	12366	HCB	TRP	B	70	-16.157	85.169	134.418	0.00	0.00	H
ATOM	12367	HCB	TRP	B	70	-14.996	85.984	133.392	0.00	0.00	H
ATOM	12368	HCD1	TRP	B	70	-13.063	84.413	132.327	0.00	0.00	H
ATOM	12369	HCE3	TRP	B	70	-16.447	83.081	135.764	0.00	0.00	H
ATOM	12370	HCH2	TRP	B	70	-15.236	79.066	135.352	0.00	0.00	H
ATOM	12371	HCZ2	TRP	B	70	-13.567	79.741	133.696	0.00	0.00	H
ATOM	12372	HCZ3	TRP	B	70	-16.697	80.729	136.344	0.00	0.00	H
ATOM	12373	N	GLU	B	71	-12.978	87.533	134.478	0.00	0.00	N
ATOM	12374	CA	GLU	B	71	-11.861	88.313	134.070	0.00	0.00	C
ATOM	12375	C	GLU	B	71	-11.025	88.820	135.193	0.00	0.00	C
ATOM	12376	O	GLU	B	71	-9.785	88.926	135.024	0.00	0.00	O
ATOM	12377	CB	GLU	B	71	-12.389	89.543	133.255	0.00	0.00	C
ATOM	12378	CG	GLU	B	71	-13.506	89.276	132.192	0.00	0.00	C
ATOM	12379	CD	GLU	B	71	-14.888	89.449	132.685	0.00	0.00	C
ATOM	12380	OE1	GLU	B	71	-15.396	88.652	133.502	0.00	0.00	O
ATOM	12381	OE2	GLU	B	71	-15.607	90.397	132.305	0.00	0.00	O
ATOM	12382	HN	GLU	B	71	-13.823	87.882	134.209	0.00	0.00	H
ATOM	12383	HCA	GLU	B	71	-11.243	87.696	133.409	0.00	0.00	H
ATOM	12384	HCB	GLU	B	71	-12.751	90.317	133.941	0.00	0.00	H
ATOM	12385	HCB	GLU	B	71	-11.527	89.978	132.737	0.00	0.00	H
ATOM	12386	HCG	GLU	B	71	-13.364	89.975	131.364	0.00	0.00	H
ATOM	12387	HCG	GLU	B	71	-13.417	88.268	131.786	0.00	0.00	H
ATOM	12388	N	SER	B	72	-11.568	89.216	136.373	0.00	0.00	N
ATOM	12389	CA	SER	B	72	-10.909	90.089	137.317	0.00	0.00	C
ATOM	12390	C	SER	B	72	-9.865	89.407	138.125	0.00	0.00	C
ATOM	12391	O	SER	B	72	-9.245	90.054	139.003	0.00	0.00	O
ATOM	12392	CB	SER	B	72	-11.956	90.861	138.166	0.00	0.00	C
ATOM	12393	OG	SER	B	72	-12.821	90.026	138.938	0.00	0.00	O
ATOM	12394	HN	SER	B	72	-12.406	88.831	136.644	0.00	0.00	H
ATOM	12395	HCA	SER	B	72	-10.374	90.858	136.748	0.00	0.00	H
ATOM	12396	HCB	SER	B	72	-11.441	91.548	138.844	0.00	0.00	H
ATOM	12397	HCB	SER	B	72	-12.576	91.467	137.500	0.00	0.00	H
ATOM	12398	HOG	SER	B	72	-13.299	90.652	139.525	0.00	0.00	H

ATOM	12399	N	VAL	B	73	-9.531	88.128	137.843	0.00	0.00	N
ATOM	12400	CA	VAL	B	73	-8.458	87.359	138.405	0.00	0.00	C
ATOM	12401	C	VAL	B	73	-7.420	87.011	137.385	0.00	0.00	C
ATOM	12402	O	VAL	B	73	-6.416	86.344	137.744	0.00	0.00	O
ATOM	12403	CB	VAL	B	73	-9.080	86.144	139.174	0.00	0.00	C
ATOM	12404	CG1	VAL	B	73	-9.972	86.618	140.359	0.00	0.00	C
ATOM	12405	CG2	VAL	B	73	-9.904	85.194	138.262	0.00	0.00	C
ATOM	12406	HN	VAL	B	73	-10.075	87.687	137.177	0.00	0.00	H
ATOM	12407	HCA	VAL	B	73	-7.918	87.962	139.135	0.00	0.00	H
ATOM	12408	HCB	VAL	B	73	-8.257	85.563	139.605	0.00	0.00	H
ATOM	12409	HCG1	VAL	B	73	-10.845	87.164	139.997	0.00	0.00	H
ATOM	12410	HCG1	VAL	B	73	-10.324	85.770	140.943	0.00	0.00	H
ATOM	12411	HCG1	VAL	B	73	-9.413	87.271	141.028	0.00	0.00	H
ATOM	12412	HCG2	VAL	B	73	-9.282	84.795	137.460	0.00	0.00	H
ATOM	12413	HCG2	VAL	B	73	-10.296	84.361	138.845	0.00	0.00	H
ATOM	12414	HCG2	VAL	B	73	-10.754	85.719	137.827	0.00	0.00	H
ATOM	12415	N	SER	B	74	-7.482	87.454	136.099	0.00	0.00	N
ATOM	12416	CA	SER	B	74	-6.466	87.253	135.092	0.00	0.00	C
ATOM	12417	C	SER	B	74	-5.100	87.651	135.548	0.00	0.00	C
ATOM	12418	O	SER	B	74	-4.873	88.852	135.824	0.00	0.00	O
ATOM	12419	CB	SER	B	74	-6.868	88.014	133.792	0.00	0.00	C
ATOM	12420	OG	SER	B	74	-5.775	88.170	132.882	0.00	0.00	O
ATOM	12421	HN	SER	B	74	-8.258	87.948	135.823	0.00	0.00	H
ATOM	12422	HCA	SER	B	74	-6.457	86.186	134.848	0.00	0.00	H
ATOM	12423	HCB	SER	B	74	-7.678	87.483	133.286	0.00	0.00	H
ATOM	12424	HCB	SER	B	74	-7.226	89.016	134.043	0.00	0.00	H
ATOM	12425	HOG	SER	B	74	-5.162	88.723	133.417	0.00	0.00	H
ATOM	12426	N	MET	B	75	-4.126	86.713	135.629	0.00	0.00	N
ATOM	12427	CA	MET	B	75	-2.755	86.874	136.045	0.00	0.00	C
ATOM	12428	C	MET	B	75	-2.548	86.881	137.520	0.00	0.00	C
ATOM	12429	O	MET	B	75	-1.369	86.988	137.937	0.00	0.00	O
ATOM	12430	CB	MET	B	75	-1.970	88.022	135.325	0.00	0.00	C
ATOM	12431	CG	MET	B	75	-2.045	88.000	133.778	0.00	0.00	C
ATOM	12432	SD	MET	B	75	-1.315	86.510	133.040	0.00	0.00	S
ATOM	12433	CE	MET	B	75	0.380	87.104	132.839	0.00	0.00	C
ATOM	12434	HN	MET	B	75	-4.395	85.810	135.401	0.00	0.00	H
ATOM	12435	HCA	MET	B	75	-2.278	85.947	135.725	0.00	0.00	H
ATOM	12436	HCB	MET	B	75	-2.339	88.987	135.679	0.00	0.00	H
ATOM	12437	HCB	MET	B	75	-0.914	87.971	135.604	0.00	0.00	H
ATOM	12438	HCE	MET	B	75	0.799	87.393	133.803	0.00	0.00	H
ATOM	12439	HCE	MET	B	75	0.988	86.307	132.413	0.00	0.00	H
ATOM	12440	HCE	MET	B	75	0.401	87.959	132.162	0.00	0.00	H
ATOM	12441	HCG	MET	B	75	-3.091	88.047	133.489	0.00	0.00	H
ATOM	12442	HCG	MET	B	75	-1.563	88.894	133.375	0.00	0.00	H
ATOM	12443	N	MET	B	76	-3.543	86.709	138.429	0.00	0.00	N
ATOM	12444	CA	MET	B	76	-3.309	86.606	139.849	0.00	0.00	C
ATOM	12445	C	MET	B	76	-2.505	85.400	140.213	0.00	0.00	C
ATOM	12446	O	MET	B	76	-1.518	85.511	140.979	0.00	0.00	O
ATOM	12447	CB	MET	B	76	-4.672	86.646	140.604	0.00	0.00	C
ATOM	12448	CG	MET	B	76	-5.209	88.091	140.793	0.00	0.00	C
ATOM	12449	SD	MET	B	76	-6.756	88.232	141.724	0.00	0.00	S
ATOM	12450	CE	MET	B	76	-6.321	87.351	143.236	0.00	0.00	C
ATOM	12451	HN	MET	B	76	-4.453	86.617	138.124	0.00	0.00	H
ATOM	12452	HCA	MET	B	76	-2.728	87.480	140.163	0.00	0.00	H
ATOM	12453	HCB	MET	B	76	-5.416	86.033	140.093	0.00	0.00	H
ATOM	12454	HCB	MET	B	76	-4.531	86.210	141.586	0.00	0.00	H
ATOM	12455	HCE	MET	B	76	-6.362	86.279	143.055	0.00	0.00	H
ATOM	12456	HCE	MET	B	76	-5.329	87.635	143.581	0.00	0.00	H
ATOM	12457	HCE	MET	B	76	-7.045	87.595	144.004	0.00	0.00	H
ATOM	12458	HCG	MET	B	76	-4.466	88.693	141.314	0.00	0.00	H
ATOM	12459	HCG	MET	B	76	-5.375	88.543	139.814	0.00	0.00	H
ATOM	12460	N	LEU	B	77	-2.849	84.195	139.710	0.00	0.00	N
ATOM	12461	CA	LEU	B	77	-2.244	82.912	139.965	0.00	0.00	C
ATOM	12462	C	LEU	B	77	-0.767	82.910	140.197	0.00	0.00	C
ATOM	12463	O	LEU	B	77	-0.319	82.411	141.257	0.00	0.00	O
ATOM	12464	CB	LEU	B	77	-2.662	82.008	138.765	0.00	0.00	C
ATOM	12465	CG	LEU	B	77	-2.253	80.505	138.818	0.00	0.00	C
ATOM	12466	CD1	LEU	B	77	-2.856	79.750	140.032	0.00	0.00	C
ATOM	12467	CD2	LEU	B	77	-2.666	79.815	137.493	0.00	0.00	C
ATOM	12468	HN	LEU	B	77	-3.618	84.202	139.122	0.00	0.00	H
ATOM	12469	HCA	LEU	B	77	-2.734	82.527	140.863	0.00	0.00	H
ATOM	12470	HCB	LEU	B	77	-3.748	82.053	138.665	0.00	0.00	H
ATOM	12471	HCB	LEU	B	77	-2.245	82.442	137.853	0.00	0.00	H
ATOM	12472	HCD1	LEU	B	77	-2.437	80.136	140.960	0.00	0.00	H
ATOM	12473	HCD1	LEU	B	77	-3.941	79.858	140.061	0.00	0.00	H
ATOM	12474	HCD1	LEU	B	77	-2.615	78.686	139.980	0.00	0.00	H
ATOM	12475	HCD2	LEU	B	77	-3.724	79.970	137.284	0.00	0.00	H
ATOM	12476	HCD2	LEU	B	77	-2.084	80.224	136.665	0.00	0.00	H
ATOM	12477	HCD2	LEU	B	77	-2.483	78.742	137.540	0.00	0.00	H
ATOM	12478	HCG	LEU	B	77	-1.162	80.444	138.886	0.00	0.00	H

ATOM	12479	N	GLN	B	78	0.087	83.422	139.280	0.00	0.00	N
ATOM	12480	CA	GLN	B	78	1.522	83.461	139.371	0.00	0.00	C
ATOM	12481	C	GLN	B	78	2.094	84.339	140.404	0.00	0.00	C
ATOM	12482	O	GLN	B	78	3.304	84.258	140.602	0.00	0.00	O
ATOM	12483	CB	GLN	B	78	2.110	83.844	137.970	0.00	0.00	C
ATOM	12484	CG	GLN	B	78	1.483	83.140	136.722	0.00	0.00	C
ATOM	12485	CD	GLN	B	78	0.422	83.938	136.068	0.00	0.00	C
ATOM	12486	NE2	GLN	B	78	0.625	84.517	134.879	0.00	0.00	N
ATOM	12487	OE1	GLN	B	78	-0.691	84.118	136.608	0.00	0.00	O
ATOM	12488	HN	GLN	B	78	-0.279	83.732	138.454	0.00	0.00	H
ATOM	12489	HNE2	GLN	B	78	1.478	84.406	134.437	0.00	0.00	H
ATOM	12490	HNE2	GLN	B	78	-0.061	85.053	134.469	0.00	0.00	H
ATOM	12491	HCA	GLN	B	78	1.850	82.439	139.594	0.00	0.00	H
ATOM	12492	HCB	GLN	B	78	2.049	84.930	137.834	0.00	0.00	H
ATOM	12493	HCB	GLN	B	78	3.177	83.594	137.984	0.00	0.00	H
ATOM	12494	HCG	GLN	B	78	2.278	82.960	135.993	0.00	0.00	H
ATOM	12495	HCG	GLN	B	78	1.080	82.161	136.992	0.00	0.00	H
ATOM	12496	N	LEU	B	79	1.381	85.211	141.103	0.00	0.00	N
ATOM	12497	CA	LEU	B	79	1.893	86.166	142.062	0.00	0.00	C
ATOM	12498	C	LEU	B	79	1.750	85.676	143.461	0.00	0.00	C
ATOM	12499	O	LEU	B	79	0.932	84.754	143.710	0.00	0.00	O
ATOM	12500	CB	LEU	B	79	1.137	87.521	141.886	0.00	0.00	C
ATOM	12501	CG	LEU	B	79	1.126	88.127	140.446	0.00	0.00	C
ATOM	12502	CD1	LEU	B	79	0.194	89.368	140.385	0.00	0.00	C
ATOM	12503	CD2	LEU	B	79	2.545	88.500	139.941	0.00	0.00	C
ATOM	12504	HN	LEU	B	79	0.428	85.230	140.985	0.00	0.00	H
ATOM	12505	HCA	LEU	B	79	2.960	86.345	141.898	0.00	0.00	H
ATOM	12506	HCB	LEU	B	79	0.098	87.367	142.194	0.00	0.00	H
ATOM	12507	HCB	LEU	B	79	1.566	88.259	142.571	0.00	0.00	H
ATOM	12508	HCD1	LEU	B	79	-0.818	89.100	140.695	0.00	0.00	H
ATOM	12509	HCD1	LEU	B	79	0.560	90.161	141.040	0.00	0.00	H
ATOM	12510	HCD1	LEU	B	79	0.138	89.753	139.365	0.00	0.00	H
ATOM	12511	HCD2	LEU	B	79	3.169	87.609	139.855	0.00	0.00	H
ATOM	12512	HCD2	LEU	B	79	2.488	88.958	138.951	0.00	0.00	H
ATOM	12513	HCD2	LEU	B	79	3.026	89.203	140.623	0.00	0.00	H
ATOM	12514	HCG	LEU	B	79	0.710	87.384	139.757	0.00	0.00	H
ATOM	12515	N	GLY	B	80	2.439	86.247	144.485	0.00	0.00	N
ATOM	12516	CA	GLY	B	80	2.338	85.875	145.867	0.00	0.00	C
ATOM	12517	C	GLY	B	80	1.539	86.819	146.678	0.00	0.00	C
ATOM	12518	O	GLY	B	80	1.108	87.893	146.185	0.00	0.00	O
ATOM	12519	HN	GLY	B	80	3.040	86.988	144.315	0.00	0.00	H
ATOM	12520	HCA	GLY	B	80	1.898	84.882	145.967	0.00	0.00	H
ATOM	12521	HCA	GLY	B	80	3.347	85.831	146.280	0.00	0.00	H
ATOM	12522	N	GLY	B	81	1.235	86.477	147.952	0.00	0.00	N
ATOM	12523	CA	GLY	B	81	0.390	87.229	148.829	0.00	0.00	C
ATOM	12524	C	GLY	B	81	-1.021	87.319	148.404	0.00	0.00	C
ATOM	12525	O	GLY	B	81	-1.517	86.412	147.683	0.00	0.00	O
ATOM	12526	HN	GLY	B	81	1.584	85.642	148.293	0.00	0.00	H
ATOM	12527	HCA	GLY	B	81	0.403	86.752	149.808	0.00	0.00	H
ATOM	12528	HCA	GLY	B	81	0.804	88.234	148.936	0.00	0.00	H
ATOM	12529	N	THR	B	82	-1.755	88.372	148.843	0.00	0.00	N
ATOM	12530	CA	THR	B	82	-3.093	88.686	148.410	0.00	0.00	C
ATOM	12531	C	THR	B	82	-3.217	90.008	147.732	0.00	0.00	C
ATOM	12532	O	THR	B	82	-3.212	91.077	148.386	0.00	0.00	O
ATOM	12533	CB	THR	B	82	-4.127	88.508	149.559	0.00	0.00	C
ATOM	12534	CG2	THR	B	82	-3.860	89.288	150.869	0.00	0.00	C
ATOM	12535	OG1	THR	B	82	-5.427	88.850	149.071	0.00	0.00	O
ATOM	12536	HN	THR	B	82	-1.338	88.924	149.518	0.00	0.00	H
ATOM	12537	HCA	THR	B	82	-3.404	87.945	147.669	0.00	0.00	H
ATOM	12538	HCB	THR	B	82	-4.139	87.448	149.825	0.00	0.00	H
ATOM	12539	HCG2	THR	B	82	-3.792	90.359	150.693	0.00	0.00	H
ATOM	12540	HCG2	THR	B	82	-4.670	89.115	151.578	0.00	0.00	H
ATOM	12541	HCG2	THR	B	82	-2.932	88.947	151.328	0.00	0.00	H
ATOM	12542	HOG1	THR	B	82	-5.579	88.251	148.306	0.00	0.00	H
ATOM	12543	N	VAL	B	83	-3.460	90.053	146.399	0.00	0.00	N
ATOM	12544	CA	VAL	B	83	-3.810	91.222	145.619	0.00	0.00	C
ATOM	12545	C	VAL	B	83	-5.000	91.964	146.155	0.00	0.00	C
ATOM	12546	O	VAL	B	83	-5.211	93.128	145.738	0.00	0.00	O
ATOM	12547	CB	VAL	B	83	-3.949	90.781	144.110	0.00	0.00	C
ATOM	12548	CG1	VAL	B	83	-4.540	91.850	143.142	0.00	0.00	C
ATOM	12549	CG2	VAL	B	83	-2.588	90.316	143.504	0.00	0.00	C
ATOM	12550	HN	VAL	B	83	-3.362	89.216	145.939	0.00	0.00	H
ATOM	12551	HCA	VAL	B	83	-2.972	91.919	145.688	0.00	0.00	H
ATOM	12552	HCB	VAL	B	83	-4.631	89.926	144.083	0.00	0.00	H
ATOM	12553	HCG1	VAL	B	83	-3.956	92.772	143.187	0.00	0.00	H
ATOM	12554	HCG1	VAL	B	83	-4.536	91.486	142.112	0.00	0.00	H
ATOM	12555	HCG1	VAL	B	83	-5.574	92.082	143.393	0.00	0.00	H
ATOM	12556	HCG2	VAL	B	83	-2.045	89.659	144.182	0.00	0.00	H
ATOM	12557	HCG2	VAL	B	83	-2.746	89.772	142.573	0.00	0.00	H
ATOM	12558	HCG2	VAL	B	83	-1.950	91.174	143.286	0.00	0.00	H

ATOM	12559	N	ILE	B	84	-5.823	91.464	147.115	0.00	0.00	N
ATOM	12560	CA	ILE	B	84	-6.995	92.108	147.667	0.00	0.00	C
ATOM	12561	C	ILE	B	84	-6.646	92.757	148.983	0.00	0.00	C
ATOM	12562	O	ILE	B	84	-7.481	93.498	149.565	0.00	0.00	O
ATOM	12563	CB	ILE	B	84	-8.152	91.032	147.650	0.00	0.00	C
ATOM	12564	CG1	ILE	B	84	-8.784	90.771	146.237	0.00	0.00	C
ATOM	12565	CG2	ILE	B	84	-9.334	91.329	148.611	0.00	0.00	C
ATOM	12566	CD1	ILE	B	84	-7.833	90.228	145.150	0.00	0.00	C
ATOM	12567	HN	ILE	B	84	-5.598	90.611	147.511	0.00	0.00	H
ATOM	12568	HCA	ILE	B	84	-7.319	92.932	147.024	0.00	0.00	H
ATOM	12569	HCB	ILE	B	84	-7.721	90.090	147.985	0.00	0.00	H
ATOM	12570	HCD1	ILE	B	84	-7.213	91.031	144.762	0.00	0.00	H
ATOM	12571	HCD1	ILE	B	84	-7.197	89.441	145.556	0.00	0.00	H
ATOM	12572	HCD1	ILE	B	84	-8.411	89.823	144.317	0.00	0.00	H
ATOM	12573	HCG1	ILE	B	84	-9.577	90.024	146.341	0.00	0.00	H
ATOM	12574	HCG1	ILE	B	84	-9.251	91.688	145.865	0.00	0.00	H
ATOM	12575	HCG2	ILE	B	84	-8.984	91.414	149.640	0.00	0.00	H
ATOM	12576	HCG2	ILE	B	84	-9.830	92.250	148.308	0.00	0.00	H
ATOM	12577	HCG2	ILE	B	84	-10.072	90.524	148.594	0.00	0.00	H
ATOM	12578	N	GLY	B	85	-5.405	92.648	149.531	0.00	0.00	N
ATOM	12579	CA	GLY	B	85	-4.942	93.325	150.710	0.00	0.00	C
ATOM	12580	C	GLY	B	85	-5.444	92.812	152.002	0.00	0.00	C
ATOM	12581	O	GLY	B	85	-6.430	92.034	152.051	0.00	0.00	O
ATOM	12582	HN	GLY	B	85	-4.754	92.090	149.096	0.00	0.00	H
ATOM	12583	HCA	GLY	B	85	-3.856	93.218	150.713	0.00	0.00	H
ATOM	12584	HCA	GLY	B	85	-5.161	94.392	150.642	0.00	0.00	H
ATOM	12585	N	SER	B	86	-4.839	93.214	153.149	0.00	0.00	N
ATOM	12586	CA	SER	B	86	-5.066	92.631	154.441	0.00	0.00	C
ATOM	12587	C	SER	B	86	-4.655	93.575	155.502	0.00	0.00	C
ATOM	12588	O	SER	B	86	-3.434	93.682	155.756	0.00	0.00	O
ATOM	12589	CB	SER	B	86	-4.357	91.261	154.581	0.00	0.00	C
ATOM	12590	OG	SER	B	86	-4.415	90.815	155.934	0.00	0.00	O
ATOM	12591	HN	SER	B	86	-4.169	93.914	153.109	0.00	0.00	H
ATOM	12592	HCA	SER	B	86	-6.116	92.427	154.587	0.00	0.00	H
ATOM	12593	HCB	SER	B	86	-4.831	90.517	153.936	0.00	0.00	H
ATOM	12594	HCB	SER	B	86	-3.311	91.343	154.287	0.00	0.00	H
ATOM	12595	HOG	SER	B	86	-3.688	90.178	155.978	0.00	0.00	H
ATOM	12596	N	ALA	B	87	-5.566	94.284	156.211	0.00	0.00	N
ATOM	12597	CA	ALA	B	87	-5.238	95.131	157.321	0.00	0.00	C
ATOM	12598	C	ALA	B	87	-5.632	94.486	158.605	0.00	0.00	C
ATOM	12599	O	ALA	B	87	-6.783	93.992	158.715	0.00	0.00	O
ATOM	12600	CB	ALA	B	87	-5.909	96.503	157.098	0.00	0.00	C
ATOM	12601	HN	ALA	B	87	-6.496	94.227	155.970	0.00	0.00	H
ATOM	12602	HCA	ALA	B	87	-4.166	95.340	157.356	0.00	0.00	H
ATOM	12603	HCB	ALA	B	87	-6.974	96.378	156.941	0.00	0.00	H
ATOM	12604	HCB	ALA	B	87	-5.748	97.157	157.958	0.00	0.00	H
ATOM	12605	HCB	ALA	B	87	-5.486	96.986	156.213	0.00	0.00	H
ATOM	12606	N	ARG	B	88	-4.733	94.452	159.626	0.00	0.00	N
ATOM	12607	CA	ARG	B	88	-4.953	94.030	160.994	0.00	0.00	C
ATOM	12608	C	ARG	B	88	-5.860	94.958	161.747	0.00	0.00	C
ATOM	12609	O	ARG	B	88	-5.494	95.604	162.761	0.00	0.00	O
ATOM	12610	CB	ARG	B	88	-3.573	93.843	161.702	0.00	0.00	C
ATOM	12611	CG	ARG	B	88	-2.717	92.658	161.170	0.00	0.00	C
ATOM	12612	CD	ARG	B	88	-1.255	92.693	161.694	0.00	0.00	C
ATOM	12613	NE	ARG	B	88	-0.366	91.921	160.887	0.00	0.00	N
ATOM	12614	CZ	ARG	B	88	-0.189	90.598	160.929	0.00	0.00	C
ATOM	12615	NH1	ARG	B	88	-0.849	89.783	161.737	0.00	0.00	N
ATOM	12616	NH2	ARG	B	88	0.710	90.065	160.121	0.00	0.00	N
ATOM	12617	HN	ARG	B	88	-3.853	94.736	159.390	0.00	0.00	H
ATOM	12618	HNE	ARG	B	88	0.165	92.399	160.236	0.00	0.00	H
ATOM	12619	HNH1	ARG	B	88	-1.510	90.141	162.339	0.00	0.00	H
ATOM	12620	HNH1	ARG	B	88	-0.665	88.836	161.723	0.00	0.00	H
ATOM	12621	HNH2	ARG	B	88	1.223	90.632	159.533	0.00	0.00	H
ATOM	12622	HNH2	ARG	B	88	0.858	89.113	160.132	0.00	0.00	H
ATOM	12623	HCA	ARG	B	88	-5.441	93.049	160.982	0.00	0.00	H
ATOM	12624	HCB	ARG	B	88	-3.016	94.780	161.617	0.00	0.00	H
ATOM	12625	HCB	ARG	B	88	-3.737	93.663	162.767	0.00	0.00	H
ATOM	12626	HCD	ARG	B	88	-0.878	93.719	161.665	0.00	0.00	H
ATOM	12627	HCD	ARG	B	88	-1.220	92.369	162.738	0.00	0.00	H
ATOM	12628	HCG	ARG	B	88	-3.180	91.714	161.469	0.00	0.00	H
ATOM	12629	HCG	ARG	B	88	-2.715	92.677	160.083	0.00	0.00	H
ATOM	12630	N	CYS	B	89	-7.125	95.069	161.294	0.00	0.00	N
ATOM	12631	CA	CYS	B	89	-8.240	95.770	161.860	0.00	0.00	C
ATOM	12632	C	CYS	B	89	-8.752	95.116	163.102	0.00	0.00	C
ATOM	12633	O	CYS	B	89	-9.902	94.613	163.177	0.00	0.00	O
ATOM	12634	CB	CYS	B	89	-9.290	95.946	160.729	0.00	0.00	C
ATOM	12635	SG	CYS	B	89	-10.655	97.024	161.211	0.00	0.00	S
ATOM	12636	HN	CYS	B	89	-7.232	94.639	160.451	0.00	0.00	H
ATOM	12637	HCA	CYS	B	89	-7.905	96.777	162.133	0.00	0.00	H
ATOM	12638	HCB	CYS	B	89	-8.810	96.400	159.862	0.00	0.00	H

ATOM	12639	HCB	CYS	B	89	-9.695	94.976	160.429	0.00	0.00	H
ATOM	12640	HSG	CYS	B	89	-10.945	96.188	162.236	0.00	0.00	H
ATOM	12641	N	LYS	B	90	-7.933	95.137	164.177	0.00	0.00	N
ATOM	12642	CA	LYS	B	90	-8.212	94.734	165.531	0.00	0.00	C
ATOM	12643	C	LYS	B	90	-9.516	95.209	166.084	0.00	0.00	C
ATOM	12644	O	LYS	B	90	-9.947	94.647	167.116	0.00	0.00	O
ATOM	12645	CB	LYS	B	90	-7.014	95.130	166.463	0.00	0.00	C
ATOM	12646	CG	LYS	B	90	-5.976	94.003	166.738	0.00	0.00	C
ATOM	12647	CD	LYS	B	90	-5.116	93.609	165.508	0.00	0.00	C
ATOM	12648	CE	LYS	B	90	-3.989	92.595	165.831	0.00	0.00	C
ATOM	12649	NZ	LYS	B	90	-4.514	91.287	166.234	0.00	0.00	N
ATOM	12650	HN	LYS	B	90	-7.043	95.393	163.935	0.00	0.00	H
ATOM	12651	HNZ	LYS	B	90	-5.146	90.933	165.515	0.00	0.00	H
ATOM	12652	HNZ	LYS	B	90	-3.740	90.632	166.348	0.00	0.00	H
ATOM	12653	HNZ	LYS	B	90	-5.014	91.364	167.117	0.00	0.00	H
ATOM	12654	HCA	LYS	B	90	-8.291	93.643	165.501	0.00	0.00	H
ATOM	12655	HCB	LYS	B	90	-6.498	96.008	166.062	0.00	0.00	H
ATOM	12656	HCB	LYS	B	90	-7.392	95.432	167.446	0.00	0.00	H
ATOM	12657	HCD	LYS	B	90	-5.756	93.194	164.725	0.00	0.00	H
ATOM	12658	HCD	LYS	B	90	-4.644	94.512	165.112	0.00	0.00	H
ATOM	12659	HCE	LYS	B	90	-3.369	92.451	164.944	0.00	0.00	H
ATOM	12660	HCE	LYS	B	90	-3.350	92.984	166.628	0.00	0.00	H
ATOM	12661	HCG	LYS	B	90	-5.304	94.353	167.528	0.00	0.00	H
ATOM	12662	HCG	LYS	B	90	-6.500	93.124	167.122	0.00	0.00	H
ATOM	12663	N	ASP	B	91	-10.302	96.138	165.490	0.00	0.00	N
ATOM	12664	CA	ASP	B	91	-11.683	96.388	165.821	0.00	0.00	C
ATOM	12665	C	ASP	B	91	-12.480	95.126	165.799	0.00	0.00	C
ATOM	12666	O	ASP	B	91	-13.342	94.911	166.684	0.00	0.00	O
ATOM	12667	CB	ASP	B	91	-12.298	97.418	164.829	0.00	0.00	C
ATOM	12668	CG	ASP	B	91	-11.669	98.748	164.800	0.00	0.00	C
ATOM	12669	OD1	ASP	B	91	-10.687	99.054	165.509	0.00	0.00	O
ATOM	12670	OD2	ASP	B	91	-12.126	99.628	164.040	0.00	0.00	O
ATOM	12671	HN	ASP	B	91	-9.919	96.640	164.756	0.00	0.00	H
ATOM	12672	HCA	ASP	B	91	-11.725	96.811	166.831	0.00	0.00	H
ATOM	12673	HCB	ASP	B	91	-12.261	97.012	163.818	0.00	0.00	H
ATOM	12674	HCB	ASP	B	91	-13.348	97.573	165.088	0.00	0.00	H
ATOM	12675	N	PHE	B	92	-12.207	94.169	164.879	0.00	0.00	N
ATOM	12676	CA	PHE	B	92	-12.856	92.891	164.780	0.00	0.00	C
ATOM	12677	C	PHE	B	92	-12.548	91.984	165.928	0.00	0.00	C
ATOM	12678	O	PHE	B	92	-13.195	90.916	166.064	0.00	0.00	O
ATOM	12679	CB	PHE	B	92	-12.470	92.276	163.401	0.00	0.00	C
ATOM	12680	CG	PHE	B	92	-13.374	91.181	162.955	0.00	0.00	C
ATOM	12681	CD1	PHE	B	92	-14.713	91.463	162.590	0.00	0.00	C
ATOM	12682	CD2	PHE	B	92	-12.913	89.847	162.867	0.00	0.00	C
ATOM	12683	CE1	PHE	B	92	-15.565	90.438	162.140	0.00	0.00	C
ATOM	12684	CE2	PHE	B	92	-13.766	88.827	162.411	0.00	0.00	C
ATOM	12685	CZ	PHE	B	92	-15.086	89.122	162.037	0.00	0.00	C
ATOM	12686	HN	PHE	B	92	-11.474	94.339	164.284	0.00	0.00	H
ATOM	12687	HCA	PHE	B	92	-13.934	93.077	164.795	0.00	0.00	H
ATOM	12688	HCB	PHE	B	92	-12.499	93.048	162.628	0.00	0.00	H
ATOM	12689	HCB	PHE	B	92	-11.433	91.930	163.449	0.00	0.00	H
ATOM	12690	HCD1	PHE	B	92	-15.074	92.417	162.643	0.00	0.00	H
ATOM	12691	HCD2	PHE	B	92	-11.953	89.609	163.127	0.00	0.00	H
ATOM	12692	HCE1	PHE	B	92	-16.530	90.647	161.880	0.00	0.00	H
ATOM	12693	HCE2	PHE	B	92	-13.419	87.870	162.332	0.00	0.00	H
ATOM	12694	H CZ	PHE	B	92	-15.693	88.381	161.685	0.00	0.00	H
ATOM	12695	N	ARG	B	93	-11.644	92.315	166.885	0.00	0.00	N
ATOM	12696	CA	ARG	B	93	-11.465	91.627	168.128	0.00	0.00	C
ATOM	12697	C	ARG	B	93	-12.597	91.931	169.054	0.00	0.00	C
ATOM	12698	O	ARG	B	93	-12.749	91.174	170.042	0.00	0.00	O
ATOM	12699	CB	ARG	B	93	-10.079	92.042	168.719	0.00	0.00	C
ATOM	12700	CG	ARG	B	93	-9.449	91.087	169.773	0.00	0.00	C
ATOM	12701	CD	ARG	B	93	-8.892	89.765	169.184	0.00	0.00	C
ATOM	12702	NE	ARG	B	93	-8.093	89.072	170.145	0.00	0.00	N
ATOM	12703	CZ	ARG	B	93	-6.800	89.290	170.404	0.00	0.00	C
ATOM	12704	NH1	ARG	B	93	-6.063	90.212	169.799	0.00	0.00	N
ATOM	12705	NH2	ARG	B	93	-6.210	88.549	171.326	0.00	0.00	N
ATOM	12706	HN	ARG	B	93	-11.129	93.119	166.801	0.00	0.00	H
ATOM	12707	HNE	ARG	B	93	-8.525	88.389	170.676	0.00	0.00	H
ATOM	12708	HNH1	ARG	B	93	-6.465	90.781	169.136	0.00	0.00	H
ATOM	12709	HNH1	ARG	B	93	-5.132	90.311	170.034	0.00	0.00	H
ATOM	12710	HNH2	ARG	B	93	-6.710	87.868	171.789	0.00	0.00	H
ATOM	12711	HNH2	ARG	B	93	-5.278	88.690	171.530	0.00	0.00	H
ATOM	12712	HCA	ARG	B	93	-11.444	90.553	167.927	0.00	0.00	H
ATOM	12713	HCB	ARG	B	93	-9.354	92.146	167.905	0.00	0.00	H
ATOM	12714	HCB	ARG	B	93	-10.179	93.030	169.178	0.00	0.00	H
ATOM	12715	HCD	ARG	B	93	-9.722	89.113	168.903	0.00	0.00	H
ATOM	12716	HCD	ARG	B	93	-8.312	89.960	168.276	0.00	0.00	H
ATOM	12717	HCG	ARG	B	93	-8.622	91.625	170.246	0.00	0.00	H
ATOM	12718	HCG	ARG	B	93	-10.173	90.858	170.558	0.00	0.00	H



ATOM	12719	N	GLU	B	94	-13.436	92.990	168.864	0.00	0.00	N
ATOM	12720	CA	GLU	B	94	-14.482	93.410	169.758	0.00	0.00	C
ATOM	12721	C	GLU	B	94	-15.814	93.578	169.098	0.00	0.00	C
ATOM	12722	O	GLU	B	94	-15.971	93.774	167.862	0.00	0.00	O
ATOM	12723	CB	GLU	B	94	-13.971	94.703	170.470	0.00	0.00	C
ATOM	12724	CG	GLU	B	94	-14.867	95.260	171.616	0.00	0.00	C
ATOM	12725	CD	GLU	B	94	-15.172	94.274	172.666	0.00	0.00	C
ATOM	12726	OE1	GLU	B	94	-14.310	93.929	173.500	0.00	0.00	O
ATOM	12727	OE2	GLU	B	94	-16.292	93.720	172.712	0.00	0.00	O
ATOM	12728	HN	GLU	B	94	-13.316	93.554	168.097	0.00	0.00	H
ATOM	12729	HCA	GLU	B	94	-14.620	92.644	170.527	0.00	0.00	H
ATOM	12730	HCB	GLU	B	94	-12.984	94.495	170.898	0.00	0.00	H
ATOM	12731	HCB	GLU	B	94	-13.831	95.488	169.722	0.00	0.00	H
ATOM	12732	HCG	GLU	B	94	-14.365	96.109	172.085	0.00	0.00	H
ATOM	12733	HCG	GLU	B	94	-15.800	95.640	171.201	0.00	0.00	H
ATOM	12734	N	ARG	B	95	-16.900	93.531	169.903	0.00	0.00	N
ATOM	12735	CA	ARG	B	95	-18.279	93.518	169.503	0.00	0.00	C
ATOM	12736	C	ARG	B	95	-18.633	94.739	168.725	0.00	0.00	C
ATOM	12737	O	ARG	B	95	-19.359	94.639	167.711	0.00	0.00	O
ATOM	12738	CB	ARG	B	95	-19.151	93.278	170.774	0.00	0.00	C
ATOM	12739	CG	ARG	B	95	-20.543	92.621	170.521	0.00	0.00	C
ATOM	12740	CD	ARG	B	95	-21.222	92.197	171.851	0.00	0.00	C
ATOM	12741	NE	ARG	B	95	-22.496	91.574	171.657	0.00	0.00	N
ATOM	12742	CZ	ARG	B	95	-22.919	90.401	172.130	0.00	0.00	C
ATOM	12743	NH1	ARG	B	95	-22.173	89.508	172.765	0.00	0.00	N
ATOM	12744	NH2	ARG	B	95	-24.203	90.126	171.969	0.00	0.00	N
ATOM	12745	HN	ARG	B	95	-16.717	93.523	170.844	0.00	0.00	H
ATOM	12746	HNE	ARG	B	95	-23.186	92.028	171.172	0.00	0.00	H
ATOM	12747	HNH1	ARG	B	95	-21.233	89.673	172.901	0.00	0.00	H
ATOM	12748	HNH1	ARG	B	95	-22.572	88.690	173.087	0.00	0.00	H
ATOM	12749	HNH2	ARG	B	95	-24.782	90.763	171.544	0.00	0.00	H
ATOM	12750	HNH2	ARG	B	95	-24.562	89.300	172.305	0.00	0.00	H
ATOM	12751	HCA	ARG	B	95	-18.400	92.645	168.863	0.00	0.00	H
ATOM	12752	HCB	ARG	B	95	-18.600	92.603	171.439	0.00	0.00	H
ATOM	12753	HCB	ARG	B	95	-19.281	94.222	171.312	0.00	0.00	H
ATOM	12754	HCD	ARG	B	95	-20.541	91.542	172.401	0.00	0.00	H
ATOM	12755	HCD	ARG	B	95	-21.382	93.088	172.463	0.00	0.00	H
ATOM	12756	HCG	ARG	B	95	-21.189	93.322	169.988	0.00	0.00	H
ATOM	12757	HCG	ARG	B	95	-20.420	91.729	169.901	0.00	0.00	H
ATOM	12758	N	GLU	B	96	-18.071	95.930	169.042	0.00	0.00	N
ATOM	12759	CA	GLU	B	96	-18.202	97.165	168.315	0.00	0.00	C
ATOM	12760	C	GLU	B	96	-17.737	97.133	166.896	0.00	0.00	C
ATOM	12761	O	GLU	B	96	-18.123	98.049	166.130	0.00	0.00	O
ATOM	12762	CB	GLU	B	96	-17.484	98.289	169.122	0.00	0.00	C
ATOM	12763	CG	GLU	B	96	-15.927	98.208	169.092	0.00	0.00	C
ATOM	12764	CD	GLU	B	96	-15.275	99.064	170.096	0.00	0.00	C
ATOM	12765	OE1	GLU	B	96	-15.430	98.849	171.317	0.00	0.00	O
ATOM	12766	OE2	GLU	B	96	-14.532	100.011	169.763	0.00	0.00	O
ATOM	12767	HN	GLU	B	96	-17.507	95.941	169.829	0.00	0.00	H
ATOM	12768	HCA	GLU	B	96	-19.270	97.404	168.298	0.00	0.00	H
ATOM	12769	HCB	GLU	B	96	-17.788	99.263	168.725	0.00	0.00	H
ATOM	12770	HCB	GLU	B	96	-17.835	98.246	170.158	0.00	0.00	H
ATOM	12771	HCG	GLU	B	96	-15.600	97.186	169.271	0.00	0.00	H
ATOM	12772	HCG	GLU	B	96	-15.572	98.495	168.099	0.00	0.00	H
ATOM	12773	N	GLY	B	97	-16.929	96.151	166.424	0.00	0.00	N
ATOM	12774	CA	GLY	B	97	-16.519	95.980	165.059	0.00	0.00	C
ATOM	12775	C	GLY	B	97	-17.313	94.900	164.444	0.00	0.00	C
ATOM	12776	O	GLY	B	97	-17.815	95.039	163.303	0.00	0.00	O
ATOM	12777	HN	GLY	B	97	-16.640	95.456	167.022	0.00	0.00	H
ATOM	12778	HCA	GLY	B	97	-16.612	96.898	164.473	0.00	0.00	H
ATOM	12779	HCA	GLY	B	97	-15.470	95.685	165.048	0.00	0.00	H
ATOM	12780	N	ARG	B	98	-17.532	93.774	165.158	0.00	0.00	N
ATOM	12781	CA	ARG	B	98	-18.353	92.671	164.730	0.00	0.00	C
ATOM	12782	C	ARG	B	98	-19.747	93.073	164.388	0.00	0.00	C
ATOM	12783	O	ARG	B	98	-20.280	92.598	163.361	0.00	0.00	O
ATOM	12784	CB	ARG	B	98	-18.336	91.566	165.813	0.00	0.00	C
ATOM	12785	CG	ARG	B	98	-16.908	91.003	166.037	0.00	0.00	C
ATOM	12786	CD	ARG	B	98	-16.822	90.033	167.229	0.00	0.00	C
ATOM	12787	NE	ARG	B	98	-15.450	89.729	167.398	0.00	0.00	N
ATOM	12788	CZ	ARG	B	98	-14.925	88.782	168.161	0.00	0.00	C
ATOM	12789	NH1	ARG	B	98	-15.612	87.935	168.915	0.00	0.00	N
ATOM	12790	NH2	ARG	B	98	-13.612	88.748	168.038	0.00	0.00	N
ATOM	12791	HN	ARG	B	98	-17.095	93.725	166.020	0.00	0.00	H
ATOM	12792	HNE	ARG	B	98	-14.795	90.223	166.907	0.00	0.00	H
ATOM	12793	HNH1	ARG	B	98	-16.553	88.063	169.054	0.00	0.00	H
ATOM	12794	HNH1	ARG	B	98	-15.203	87.153	169.277	0.00	0.00	H
ATOM	12795	HNH2	ARG	B	98	-13.242	89.387	167.425	0.00	0.00	H
ATOM	12796	HNH2	ARG	B	98	-13.070	88.123	168.533	0.00	0.00	H
ATOM	12797	HCA	ARG	B	98	-17.891	92.250	163.833	0.00	0.00	H
ATOM	12798	HCB	ARG	B	98	-18.736	91.974	166.740	0.00	0.00	H

ATOM	12799	HCB	ARG	B	98	-18.992	90.748	165.511	0.00	0.00	H
ATOM	12800	HCD	ARG	B	98	-17.209	90.499	168.139	0.00	0.00	H
ATOM	12801	HCD	ARG	B	98	-17.396	89.130	167.008	0.00	0.00	H
ATOM	12802	HCG	ARG	B	98	-16.579	90.485	165.131	0.00	0.00	H
ATOM	12803	HCG	ARG	B	98	-16.209	91.823	166.212	0.00	0.00	H
ATOM	12804	N	LEU	B	99	-20.425	93.982	165.124	0.00	0.00	N
ATOM	12805	CA	LEU	B	99	-21.682	94.582	164.755	0.00	0.00	C
ATOM	12806	C	LEU	B	99	-21.662	95.281	163.436	0.00	0.00	C
ATOM	12807	O	LEU	B	99	-22.711	95.292	162.750	0.00	0.00	O
ATOM	12808	CB	LEU	B	99	-22.127	95.581	165.869	0.00	0.00	C
ATOM	12809	CG	LEU	B	99	-22.601	94.914	167.198	0.00	0.00	C
ATOM	12810	CD1	LEU	B	99	-22.564	95.920	168.381	0.00	0.00	C
ATOM	12811	CD2	LEU	B	99	-24.026	94.314	167.078	0.00	0.00	C
ATOM	12812	HN	LEU	B	99	-20.039	94.240	165.961	0.00	0.00	H
ATOM	12813	HCA	LEU	B	99	-22.418	93.779	164.681	0.00	0.00	H
ATOM	12814	HCB	LEU	B	99	-21.284	96.249	166.074	0.00	0.00	H
ATOM	12815	HCB	LEU	B	99	-22.944	96.212	165.501	0.00	0.00	H
ATOM	12816	HCD1	LEU	B	99	-21.549	96.289	168.536	0.00	0.00	H
ATOM	12817	HCD1	LEU	B	99	-23.218	96.772	168.184	0.00	0.00	H
ATOM	12818	HCD1	LEU	B	99	-22.889	95.437	169.305	0.00	0.00	H
ATOM	12819	HCD2	LEU	B	99	-24.771	95.097	166.925	0.00	0.00	H
ATOM	12820	HCD2	LEU	B	99	-24.100	93.603	166.255	0.00	0.00	H
ATOM	12821	HCD2	LEU	B	99	-24.261	93.780	167.996	0.00	0.00	H
ATOM	12822	HCG	LEU	B	99	-21.916	94.099	167.449	0.00	0.00	H
ATOM	12823	N	ARG	B	100	-20.547	95.869	162.944	0.00	0.00	N
ATOM	12824	CA	ARG	B	100	-20.454	96.681	161.759	0.00	0.00	C
ATOM	12825	C	ARG	B	100	-20.180	95.786	160.597	0.00	0.00	C
ATOM	12826	O	ARG	B	100	-20.766	95.960	159.500	0.00	0.00	O
ATOM	12827	CB	ARG	B	100	-19.356	97.767	161.994	0.00	0.00	C
ATOM	12828	CG	ARG	B	100	-19.573	99.074	161.174	0.00	0.00	C
ATOM	12829	CD	ARG	B	100	-18.378	100.063	161.231	0.00	0.00	C
ATOM	12830	NE	ARG	B	100	-18.164	100.519	162.560	0.00	0.00	N
ATOM	12831	CZ	ARG	B	100	-17.111	101.216	162.992	0.00	0.00	C
ATOM	12832	NH1	ARG	B	100	-16.048	101.591	162.284	0.00	0.00	N
ATOM	12833	NH2	ARG	B	100	-17.129	101.563	164.269	0.00	0.00	N
ATOM	12834	HN	ARG	B	100	-19.702	95.648	163.336	0.00	0.00	H
ATOM	12835	HNE	ARG	B	100	-18.852	100.328	163.212	0.00	0.00	H
ATOM	12836	HNH1	ARG	B	100	-15.898	101.374	161.356	0.00	0.00	H
ATOM	12837	HNH1	ARG	B	100	-15.370	102.108	162.734	0.00	0.00	H
ATOM	12838	HNH2	ARG	B	100	-17.870	101.298	164.828	0.00	0.00	H
ATOM	12839	HNH2	ARG	B	100	-16.402	102.075	164.642	0.00	0.00	H
ATOM	12840	HCA	ARG	B	100	-21.408	97.191	161.601	0.00	0.00	H
ATOM	12841	HCB	ARG	B	100	-19.345	98.045	163.052	0.00	0.00	H
ATOM	12842	HCB	ARG	B	100	-18.374	97.346	161.764	0.00	0.00	H
ATOM	12843	HCD	ARG	B	100	-17.473	99.579	160.862	0.00	0.00	H
ATOM	12844	HCD	ARG	B	100	-18.594	100.922	160.589	0.00	0.00	H
ATOM	12845	HCG	ARG	B	100	-19.757	98.817	160.128	0.00	0.00	H
ATOM	12846	HCG	ARG	B	100	-20.471	99.581	161.541	0.00	0.00	H
ATOM	12847	N	ALA	B	101	-19.373	94.713	160.789	0.00	0.00	N
ATOM	12848	CA	ALA	B	101	-19.286	93.572	159.920	0.00	0.00	C
ATOM	12849	C	ALA	B	101	-20.607	92.917	159.682	0.00	0.00	C
ATOM	12850	O	ALA	B	101	-21.019	92.760	158.506	0.00	0.00	O
ATOM	12851	CB	ALA	B	101	-18.259	92.583	160.515	0.00	0.00	C
ATOM	12852	HN	ALA	B	101	-18.859	94.724	161.602	0.00	0.00	H
ATOM	12853	HCA	ALA	B	101	-18.901	93.904	158.958	0.00	0.00	H
ATOM	12854	HCB	ALA	B	101	-18.520	92.320	161.535	0.00	0.00	H
ATOM	12855	HCB	ALA	B	101	-18.238	91.664	159.931	0.00	0.00	H
ATOM	12856	HCB	ALA	B	101	-17.260	93.026	160.511	0.00	0.00	H
ATOM	12857	N	ALA	B	102	-21.380	92.526	160.723	0.00	0.00	N
ATOM	12858	CA	ALA	B	102	-22.713	92.004	160.630	0.00	0.00	C
ATOM	12859	C	ALA	B	102	-23.626	92.923	159.895	0.00	0.00	C
ATOM	12860	O	ALA	B	102	-24.243	92.477	158.897	0.00	0.00	O
ATOM	12861	CB	ALA	B	102	-23.234	91.673	162.049	0.00	0.00	C
ATOM	12862	HN	ALA	B	102	-21.002	92.598	161.597	0.00	0.00	H
ATOM	12863	HCA	ALA	B	102	-22.656	91.058	160.086	0.00	0.00	H
ATOM	12864	HCB	ALA	B	102	-23.370	92.581	162.637	0.00	0.00	H
ATOM	12865	HCB	ALA	B	102	-24.189	91.148	161.985	0.00	0.00	H
ATOM	12866	HCB	ALA	B	102	-22.527	91.024	162.570	0.00	0.00	H
ATOM	12867	N	HSE	B	103	-23.735	94.232	160.243	0.00	0.00	N
ATOM	12868	CA	HSE	B	103	-24.460	95.232	159.503	0.00	0.00	C
ATOM	12869	C	HSE	B	103	-24.142	95.204	158.044	0.00	0.00	C
ATOM	12870	O	HSE	B	103	-25.094	95.029	157.253	0.00	0.00	O
ATOM	12871	CB	HSE	B	103	-24.194	96.634	160.119	0.00	0.00	C
ATOM	12872	CG	HSE	B	103	-25.129	97.679	159.666	0.00	0.00	C
ATOM	12873	CD2	HSE	B	103	-24.856	98.734	158.803	0.00	0.00	C
ATOM	12874	ND1	HSE	B	103	-26.405	97.795	160.072	0.00	0.00	N
ATOM	12875	CE1	HSE	B	103	-26.903	98.902	159.495	0.00	0.00	C
ATOM	12876	NE2	HSE	B	103	-25.969	99.469	158.720	0.00	0.00	N
ATOM	12877	HN	HSE	B	103	-23.323	94.522	161.060	0.00	0.00	H
ATOM	12878	HNE2	HSE	B	103	-26.080	100.278	158.198	0.00	0.00	H

ATOM	12879	HCA	HSE	B	103	-25.524	95.007	159.643	0.00	0.00	H	
ATOM	12880	HC	B	HSE	B	103	-24.296	96.585	161.204	0.00	0.00	H
ATOM	12881	HC	B	HSE	B	103	-23.173	96.946	159.900	0.00	0.00	H
ATOM	12882	HCD2	HSE	B	103	-23.971	98.921	158.328	0.00	0.00	H	
ATOM	12883	HCE1	HSE	B	103	-27.850	99.259	159.635	0.00	0.00	H	
ATOM	12884	N	ASN	B	104	-22.873	95.293	157.566	0.00	0.00	N	
ATOM	12885	CA	ASN	B	104	-22.498	95.143	156.175	0.00	0.00	C	
ATOM	12886	C	ASN	B	104	-22.963	93.866	155.548	0.00	0.00	C	
ATOM	12887	O	ASN	B	104	-23.642	93.923	154.491	0.00	0.00	O	
ATOM	12888	CB	ASN	B	104	-20.954	95.264	156.026	0.00	0.00	C	
ATOM	12889	CG	ASN	B	104	-20.479	96.652	155.958	0.00	0.00	C	
ATOM	12890	ND2	ASN	B	104	-19.967	97.267	157.023	0.00	0.00	N	
ATOM	12891	OD1	ASN	B	104	-20.537	97.285	154.882	0.00	0.00	O	
ATOM	12892	HN	ASN	B	104	-22.176	95.476	158.202	0.00	0.00	H	
ATOM	12893	HND2	ASN	B	104	-20.085	96.867	157.885	0.00	0.00	H	
ATOM	12894	HND2	ASN	B	104	-19.480	98.079	156.889	0.00	0.00	H	
ATOM	12895	HCA	ASN	B	104	-22.962	95.967	155.622	0.00	0.00	H	
ATOM	12896	HC	B	ASN	B	104	-20.453	94.748	156.848	0.00	0.00	H
ATOM	12897	HC	B	ASN	B	104	-20.613	94.778	155.106	0.00	0.00	H
ATOM	12898	N	LEU	B	105	-22.652	92.666	156.101	0.00	0.00	N	
ATOM	12899	CA	LEU	B	105	-23.055	91.375	155.590	0.00	0.00	C	
ATOM	12900	C	LEU	B	105	-24.522	91.301	155.337	0.00	0.00	C	
ATOM	12901	O	LEU	B	105	-24.940	90.912	154.217	0.00	0.00	O	
ATOM	12902	CB	LEU	B	105	-22.634	90.244	156.582	0.00	0.00	C	
ATOM	12903	CG	LEU	B	105	-21.111	89.897	156.610	0.00	0.00	C	
ATOM	12904	CD1	LEU	B	105	-20.747	89.125	157.906	0.00	0.00	C	
ATOM	12905	CD2	LEU	B	105	-20.683	89.060	155.375	0.00	0.00	C	
ATOM	12906	HN	LEU	B	105	-22.116	92.686	156.897	0.00	0.00	H	
ATOM	12907	HCA	LEU	B	105	-22.541	91.219	154.637	0.00	0.00	H	
ATOM	12908	HC	B	LEU	B	105	-22.952	90.547	157.581	0.00	0.00	H
ATOM	12909	HC	B	LEU	B	105	-23.183	89.325	156.349	0.00	0.00	H
ATOM	12910	HCD1	LEU	B	105	-20.984	89.731	158.780	0.00	0.00	H	
ATOM	12911	HCD1	LEU	B	105	-21.303	88.186	157.969	0.00	0.00	H	
ATOM	12912	HCD1	LEU	B	105	-19.679	88.901	157.934	0.00	0.00	H	
ATOM	12913	HCD2	LEU	B	105	-21.303	88.166	155.294	0.00	0.00	H	
ATOM	12914	HCD2	LEU	B	105	-20.777	89.645	154.461	0.00	0.00	H	
ATOM	12915	HCD2	LEU	B	105	-19.645	88.738	155.456	0.00	0.00	H	
ATOM	12916	HCG	LEU	B	105	-20.537	90.830	156.611	0.00	0.00	H	
ATOM	12917	N	VAL	B	106	-25.370	91.682	156.322	0.00	0.00	N	
ATOM	12918	CA	VAL	B	106	-26.805	91.739	156.252	0.00	0.00	C	
ATOM	12919	C	VAL	B	106	-27.270	92.731	155.235	0.00	0.00	C	
ATOM	12920	O	VAL	B	106	-28.090	92.355	154.364	0.00	0.00	O	
ATOM	12921	CB	VAL	B	106	-27.349	92.023	157.696	0.00	0.00	C	
ATOM	12922	CG1	VAL	B	106	-28.863	92.365	157.735	0.00	0.00	C	
ATOM	12923	CG2	VAL	B	106	-27.084	90.825	158.658	0.00	0.00	C	
ATOM	12924	HN	VAL	B	106	-24.970	91.956	157.152	0.00	0.00	H	
ATOM	12925	HCA	VAL	B	106	-27.168	90.750	155.951	0.00	0.00	H	
ATOM	12926	HC	B	VAL	B	106	-26.821	92.896	158.097	0.00	0.00	H
ATOM	12927	HCG1	VAL	B	106	-29.074	93.277	157.175	0.00	0.00	H	
ATOM	12928	HCG1	VAL	B	106	-29.450	91.549	157.311	0.00	0.00	H	
ATOM	12929	HCG1	VAL	B	106	-29.173	92.535	158.767	0.00	0.00	H	
ATOM	12930	HCG2	VAL	B	106	-26.029	90.549	158.665	0.00	0.00	H	
ATOM	12931	HCG2	VAL	B	106	-27.365	91.084	159.681	0.00	0.00	H	
ATOM	12932	HCG2	VAL	B	106	-27.660	89.949	158.352	0.00	0.00	H	
ATOM	12933	N	LYS	B	107	-26.832	94.014	155.239	0.00	0.00	N	
ATOM	12934	CA	LYS	B	107	-27.169	95.055	154.303	0.00	0.00	C	
ATOM	12935	C	LYS	B	107	-26.965	94.633	152.893	0.00	0.00	C	
ATOM	12936	O	LYS	B	107	-27.918	94.737	152.084	0.00	0.00	O	
ATOM	12937	CB	LYS	B	107	-26.310	96.312	154.644	0.00	0.00	C	
ATOM	12938	CG	LYS	B	107	-26.500	97.538	153.705	0.00	0.00	C	
ATOM	12939	CD	LYS	B	107	-25.523	98.693	154.059	0.00	0.00	C	
ATOM	12940	CE	LYS	B	107	-25.704	99.930	153.150	0.00	0.00	C	
ATOM	12941	NZ	LYS	B	107	-24.700	100.951	153.463	0.00	0.00	N	
ATOM	12942	HN	LYS	B	107	-26.236	94.274	155.938	0.00	0.00	H	
ATOM	12943	HNZ	LYS	B	107	-24.802	101.249	154.433	0.00	0.00	H	
ATOM	12944	HNZ	LYS	B	107	-23.764	100.569	153.328	0.00	0.00	H	
ATOM	12945	HNZ	LYS	B	107	-24.826	101.758	152.851	0.00	0.00	H	
ATOM	12946	HCA	LYS	B	107	-28.222	95.314	154.452	0.00	0.00	H	
ATOM	12947	HC	B	LYS	B	107	-26.544	96.623	155.666	0.00	0.00	H
ATOM	12948	HC	B	LYS	B	107	-25.255	96.029	154.623	0.00	0.00	H
ATOM	12949	HCD	LYS	B	107	-25.672	98.992	155.101	0.00	0.00	H	
ATOM	12950	HCD	LYS	B	107	-24.495	98.330	153.958	0.00	0.00	H	
ATOM	12951	HCE	LYS	B	107	-25.595	99.646	152.101	0.00	0.00	H	
ATOM	12952	HCE	LYS	B	107	-26.699	100.358	153.293	0.00	0.00	H	
ATOM	12953	HCG	LYS	B	107	-26.313	97.239	152.670	0.00	0.00	H	
ATOM	12954	HCG	LYS	B	107	-27.533	97.886	153.772	0.00	0.00	H	
ATOM	12955	N	ARG	B	108	-25.766	94.150	152.490	0.00	0.00	N	
ATOM	12956	CA	ARG	B	108	-25.494	93.681	151.160	0.00	0.00	C	
ATOM	12957	C	ARG	B	108	-26.258	92.433	150.858	0.00	0.00	C	
ATOM	12958	O	ARG	B	108	-26.889	92.370	149.776	0.00	0.00	O	



ATOM	13039	CD1	LEU	B	113	-16.814	86.639	154.489	0.00	0.00	C
ATOM	13040	CD2	LEU	B	113	-17.171	86.057	156.933	0.00	0.00	C
ATOM	13041	HN	LEU	B	113	-19.693	82.467	154.316	0.00	0.00	H
ATOM	13042	HCA	LEU	B	113	-18.053	84.515	153.015	0.00	0.00	H
ATOM	13043	HC	LEU	B	113	-19.151	85.210	155.118	0.00	0.00	H
ATOM	13044	HC	LEU	B	113	-18.405	83.856	155.953	0.00	0.00	H
ATOM	13045	HCD1	LEU	B	113	-16.523	86.252	153.512	0.00	0.00	H
ATOM	13046	HCD1	LEU	B	113	-17.723	87.234	154.384	0.00	0.00	H
ATOM	13047	HCD1	LEU	B	113	-16.014	87.297	154.829	0.00	0.00	H
ATOM	13048	HCD2	LEU	B	113	-17.251	85.251	157.664	0.00	0.00	H
ATOM	13049	HCD2	LEU	B	113	-16.295	86.656	157.194	0.00	0.00	H
ATOM	13050	HCD2	LEU	B	113	-18.059	86.689	157.011	0.00	0.00	H
ATOM	13051	HCG	LEU	B	113	-16.130	84.861	155.483	0.00	0.00	H
ATOM	13052	N	CYS	B	114	-16.061	83.029	152.795	0.00	0.00	N
ATOM	13053	CA	CYS	B	114	-14.801	82.338	152.719	0.00	0.00	C
ATOM	13054	C	CYS	B	114	-13.766	83.172	153.388	0.00	0.00	C
ATOM	13055	O	CYS	B	114	-13.483	84.291	152.888	0.00	0.00	O
ATOM	13056	CB	CYS	B	114	-14.421	82.036	151.242	0.00	0.00	C
ATOM	13057	SG	CYS	B	114	-12.953	80.992	151.114	0.00	0.00	S
ATOM	13058	HN	CYS	B	114	-16.223	83.721	152.150	0.00	0.00	H
ATOM	13059	HCA	CYS	B	114	-14.874	81.372	153.230	0.00	0.00	H
ATOM	13060	HC	CYS	B	114	-15.233	81.517	150.738	0.00	0.00	H
ATOM	13061	HC	CYS	B	114	-14.236	82.959	150.693	0.00	0.00	H
ATOM	13062	HSG	CYS	B	114	-12.186	81.892	151.787	0.00	0.00	H
ATOM	13063	N	VAL	B	115	-13.136	82.707	154.495	0.00	0.00	N
ATOM	13064	CA	VAL	B	115	-12.099	83.370	155.236	0.00	0.00	C
ATOM	13065	C	VAL	B	115	-10.818	82.707	154.878	0.00	0.00	C
ATOM	13066	O	VAL	B	115	-10.556	81.561	155.323	0.00	0.00	O
ATOM	13067	CB	VAL	B	115	-12.377	83.339	156.781	0.00	0.00	C
ATOM	13068	CG1	VAL	B	115	-11.241	84.025	157.599	0.00	0.00	C
ATOM	13069	CG2	VAL	B	115	-13.744	83.983	157.140	0.00	0.00	C
ATOM	13070	HN	VAL	B	115	-13.386	81.839	154.810	0.00	0.00	H
ATOM	13071	HCA	VAL	B	115	-12.042	84.424	154.945	0.00	0.00	H
ATOM	13072	HC	VAL	B	115	-12.424	82.293	157.102	0.00	0.00	H
ATOM	13073	HCG1	VAL	B	115	-10.282	83.537	157.421	0.00	0.00	H
ATOM	13074	HCG1	VAL	B	115	-11.146	85.077	157.327	0.00	0.00	H
ATOM	13075	HCG1	VAL	B	115	-11.446	83.961	158.667	0.00	0.00	H
ATOM	13076	HCG2	VAL	B	115	-14.558	83.413	156.689	0.00	0.00	H
ATOM	13077	HCG2	VAL	B	115	-13.901	83.985	158.220	0.00	0.00	H
ATOM	13078	HCG2	VAL	B	115	-13.793	85.013	156.780	0.00	0.00	H
ATOM	13079	N	ILE	B	116	-9.943	83.348	154.072	0.00	0.00	N
ATOM	13080	CA	ILE	B	116	-8.640	82.875	153.697	0.00	0.00	C
ATOM	13081	C	ILE	B	116	-7.677	83.432	154.684	0.00	0.00	C
ATOM	13082	O	ILE	B	116	-7.544	84.677	154.768	0.00	0.00	O
ATOM	13083	CB	ILE	B	116	-8.296	83.197	152.200	0.00	0.00	C
ATOM	13084	CG1	ILE	B	116	-9.471	82.802	151.244	0.00	0.00	C
ATOM	13085	CG2	ILE	B	116	-6.946	82.539	151.786	0.00	0.00	C
ATOM	13086	CD1	ILE	B	116	-9.257	83.115	149.748	0.00	0.00	C
ATOM	13087	HN	ILE	B	116	-10.224	84.196	153.730	0.00	0.00	H
ATOM	13088	HCA	ILE	B	116	-8.620	81.793	153.781	0.00	0.00	H
ATOM	13089	HC	ILE	B	116	-8.158	84.271	152.103	0.00	0.00	H
ATOM	13090	HCD1	ILE	B	116	-9.065	84.179	149.628	0.00	0.00	H
ATOM	13091	HCD1	ILE	B	116	-8.421	82.550	149.341	0.00	0.00	H
ATOM	13092	HCD1	ILE	B	116	-10.149	82.850	149.179	0.00	0.00	H
ATOM	13093	HCG1	ILE	B	116	-9.683	81.742	151.347	0.00	0.00	H
ATOM	13094	HCG1	ILE	B	116	-10.374	83.342	151.543	0.00	0.00	H
ATOM	13095	HCG2	ILE	B	116	-6.161	82.777	152.506	0.00	0.00	H
ATOM	13096	HCG2	ILE	B	116	-7.047	81.456	151.735	0.00	0.00	H
ATOM	13097	HCG2	ILE	B	116	-6.615	82.909	150.815	0.00	0.00	H
ATOM	13098	N	GLY	B	117	-6.992	82.615	155.520	0.00	0.00	N
ATOM	13099	CA	GLY	B	117	-6.113	83.113	156.545	0.00	0.00	C
ATOM	13100	C	GLY	B	117	-5.490	82.132	157.451	0.00	0.00	C
ATOM	13101	O	GLY	B	117	-5.691	80.909	157.298	0.00	0.00	O
ATOM	13102	HN	GLY	B	117	-7.137	81.671	155.406	0.00	0.00	H
ATOM	13103	HCA	GLY	B	117	-5.307	83.678	156.069	0.00	0.00	H
ATOM	13104	HCA	GLY	B	117	-6.691	83.794	157.171	0.00	0.00	H
ATOM	13105	N	GLY	B	118	-4.708	82.594	158.454	0.00	0.00	N
ATOM	13106	CA	GLY	B	118	-3.992	81.803	159.420	0.00	0.00	C
ATOM	13107	C	GLY	B	118	-4.611	81.771	160.763	0.00	0.00	C
ATOM	13108	O	GLY	B	118	-5.773	82.211	160.935	0.00	0.00	O
ATOM	13109	HN	GLY	B	118	-4.624	83.556	158.522	0.00	0.00	H
ATOM	13110	HCA	GLY	B	118	-3.871	80.770	159.083	0.00	0.00	H
ATOM	13111	HCA	GLY	B	118	-2.994	82.236	159.509	0.00	0.00	H
ATOM	13112	N	ASP	B	119	-3.908	81.262	161.803	0.00	0.00	N
ATOM	13113	CA	ASP	B	119	-4.393	81.037	163.140	0.00	0.00	C
ATOM	13114	C	ASP	B	119	-5.216	82.150	163.702	0.00	0.00	C
ATOM	13115	O	ASP	B	119	-6.415	81.944	164.005	0.00	0.00	O
ATOM	13116	CB	ASP	B	119	-3.205	80.621	164.064	0.00	0.00	C
ATOM	13117	CG	ASP	B	119	-2.093	81.578	164.252	0.00	0.00	C
ATOM	13118	OD1	ASP	B	119	-1.946	82.619	163.571	0.00	0.00	O

ATOM	13119	OD2	ASP	B	119	-1.260	81.360	165.157	0.00	0.00	O
ATOM	13120	HN	ASP	B	119	-2.993	80.992	161.620	0.00	0.00	H
ATOM	13121	HCA	ASP	B	119	-5.051	80.167	163.070	0.00	0.00	H
ATOM	13122	HCN	ASP	B	119	-3.611	80.392	165.052	0.00	0.00	H
ATOM	13123	HCN	ASP	B	119	-2.762	79.700	163.677	0.00	0.00	H
ATOM	13124	N	GLY	B	120	-4.665	83.375	163.821	0.00	0.00	N
ATOM	13125	CA	GLY	B	120	-5.306	84.606	164.185	0.00	0.00	C
ATOM	13126	C	GLY	B	120	-6.597	84.857	163.502	0.00	0.00	C
ATOM	13127	O	GLY	B	120	-7.647	84.978	164.175	0.00	0.00	O
ATOM	13128	HN	GLY	B	120	-3.718	83.346	163.685	0.00	0.00	H
ATOM	13129	HCA	GLY	B	120	-5.440	84.623	165.268	0.00	0.00	H
ATOM	13130	HCA	GLY	B	120	-4.631	85.425	163.932	0.00	0.00	H
ATOM	13131	N	SER	B	121	-6.642	84.928	162.153	0.00	0.00	N
ATOM	13132	CA	SER	B	121	-7.825	85.144	161.361	0.00	0.00	C
ATOM	13133	C	SER	B	121	-8.872	84.109	161.556	0.00	0.00	C
ATOM	13134	O	SER	B	121	-10.066	84.482	161.654	0.00	0.00	O
ATOM	13135	CB	SER	B	121	-7.449	85.223	159.860	0.00	0.00	C
ATOM	13136	OG	SER	B	121	-6.764	86.445	159.590	0.00	0.00	O
ATOM	13137	HN	SER	B	121	-5.800	84.819	161.685	0.00	0.00	H
ATOM	13138	HCA	SER	B	121	-8.240	86.113	161.651	0.00	0.00	H
ATOM	13139	HCN	SER	B	121	-6.810	84.380	159.590	0.00	0.00	H
ATOM	13140	HCN	SER	B	121	-8.345	85.189	159.234	0.00	0.00	H
ATOM	13141	HOG	SER	B	121	-6.440	86.370	158.682	0.00	0.00	H
ATOM	13142	N	LEU	B	122	-8.538	82.798	161.584	0.00	0.00	N
ATOM	13143	CA	LEU	B	122	-9.437	81.696	161.800	0.00	0.00	C
ATOM	13144	C	LEU	B	122	-10.010	81.650	163.179	0.00	0.00	C
ATOM	13145	O	LEU	B	122	-11.252	81.510	163.312	0.00	0.00	O
ATOM	13146	CB	LEU	B	122	-8.715	80.370	161.419	0.00	0.00	C
ATOM	13147	CG	LEU	B	122	-8.309	80.238	159.913	0.00	0.00	C
ATOM	13148	CD1	LEU	B	122	-7.507	78.932	159.681	0.00	0.00	C
ATOM	13149	CD2	LEU	B	122	-9.517	80.290	158.941	0.00	0.00	C
ATOM	13150	HN	LEU	B	122	-7.614	82.592	161.426	0.00	0.00	H
ATOM	13151	HCA	LEU	B	122	-10.281	81.818	161.118	0.00	0.00	H
ATOM	13152	HCN	LEU	B	122	-7.815	80.281	162.036	0.00	0.00	H
ATOM	13153	HCN	LEU	B	122	-9.361	79.527	161.675	0.00	0.00	H
ATOM	13154	HCD1	LEU	B	122	-6.620	78.909	160.316	0.00	0.00	H
ATOM	13155	HCD1	LEU	B	122	-8.122	78.056	159.897	0.00	0.00	H
ATOM	13156	HCD1	LEU	B	122	-7.177	78.875	158.644	0.00	0.00	H
ATOM	13157	HCD2	LEU	B	122	-9.945	81.292	158.904	0.00	0.00	H
ATOM	13158	HCD2	LEU	B	122	-9.207	80.038	157.924	0.00	0.00	H
ATOM	13159	HCD2	LEU	B	122	-10.287	79.590	159.262	0.00	0.00	H
ATOM	13160	HCG	LEU	B	122	-7.650	81.069	159.646	0.00	0.00	H
ATOM	13161	N	THR	B	123	-9.260	81.809	164.301	0.00	0.00	N
ATOM	13162	CA	THR	B	123	-9.829	81.971	165.623	0.00	0.00	C
ATOM	13163	C	THR	B	123	-10.717	83.163	165.646	0.00	0.00	C
ATOM	13164	O	THR	B	123	-11.874	83.033	166.113	0.00	0.00	O
ATOM	13165	CB	THR	B	123	-8.808	81.955	166.800	0.00	0.00	C
ATOM	13166	CG2	THR	B	123	-7.862	83.167	166.921	0.00	0.00	C
ATOM	13167	OG1	THR	B	123	-9.524	81.873	168.031	0.00	0.00	O
ATOM	13168	HN	THR	B	123	-8.311	81.867	164.197	0.00	0.00	H
ATOM	13169	HCA	THR	B	123	-10.456	81.089	165.791	0.00	0.00	H
ATOM	13170	HCN	THR	B	123	-8.193	81.055	166.703	0.00	0.00	H
ATOM	13171	HCG2	THR	B	123	-7.265	83.253	166.023	0.00	0.00	H
ATOM	13172	HCG2	THR	B	123	-8.421	84.092	167.072	0.00	0.00	H
ATOM	13173	HCG2	THR	B	123	-7.183	83.033	167.765	0.00	0.00	H
ATOM	13174	HOG1	THR	B	123	-8.840	81.898	168.726	0.00	0.00	H
ATOM	13175	N	GLY	B	124	-10.326	84.310	165.029	0.00	0.00	N
ATOM	13176	CA	GLY	B	124	-11.139	85.448	164.728	0.00	0.00	C
ATOM	13177	C	GLY	B	124	-12.411	85.188	164.014	0.00	0.00	C
ATOM	13178	O	GLY	B	124	-13.314	86.049	164.117	0.00	0.00	O
ATOM	13179	HN	GLY	B	124	-9.412	84.394	164.748	0.00	0.00	H
ATOM	13180	HCA	GLY	B	124	-11.325	85.995	165.653	0.00	0.00	H
ATOM	13181	HCA	GLY	B	124	-10.553	86.112	164.090	0.00	0.00	H
ATOM	13182	N	ALA	B	125	-12.635	84.052	163.311	0.00	0.00	N
ATOM	13183	CA	ALA	B	125	-13.837	83.711	162.609	0.00	0.00	C
ATOM	13184	C	ALA	B	125	-14.655	82.839	163.487	0.00	0.00	C
ATOM	13185	O	ALA	B	125	-15.878	83.084	163.640	0.00	0.00	O
ATOM	13186	CB	ALA	B	125	-13.483	83.016	161.273	0.00	0.00	C
ATOM	13187	HN	ALA	B	125	-11.983	83.351	163.330	0.00	0.00	H
ATOM	13188	HCA	ALA	B	125	-14.406	84.611	162.354	0.00	0.00	H
ATOM	13189	HCN	ALA	B	125	-12.969	82.068	161.437	0.00	0.00	H
ATOM	13190	HCN	ALA	B	125	-14.392	82.820	160.699	0.00	0.00	H
ATOM	13191	HCN	ALA	B	125	-12.837	83.665	160.681	0.00	0.00	H
ATOM	13192	N	ASP	B	126	-14.085	81.813	164.170	0.00	0.00	N
ATOM	13193	CA	ASP	B	126	-14.809	81.002	165.114	0.00	0.00	C
ATOM	13194	C	ASP	B	126	-15.393	81.818	166.224	0.00	0.00	C
ATOM	13195	O	ASP	B	126	-16.610	81.701	166.507	0.00	0.00	O
ATOM	13196	CB	ASP	B	126	-13.991	79.798	165.653	0.00	0.00	C
ATOM	13197	CG	ASP	B	126	-14.894	78.777	166.220	0.00	0.00	C
ATOM	13198	OD1	ASP	B	126	-15.735	78.192	165.506	0.00	0.00	O

ATOM	13199	OD2	ASP	B	126	-14.943	78.524	167.440	0.00	0.00	O
ATOM	13200	HN	ASP	B	126	-13.154	81.647	163.987	0.00	0.00	H
ATOM	13201	HCA	ASP	B	126	-15.625	80.576	164.525	0.00	0.00	H
ATOM	13202	HCB	ASP	B	126	-13.431	79.335	164.842	0.00	0.00	H
ATOM	13203	HCB	ASP	B	126	-13.275	80.131	166.408	0.00	0.00	H
ATOM	13204	N	THR	B	127	-14.665	82.758	166.878	0.00	0.00	N
ATOM	13205	CA	THR	B	127	-15.231	83.652	167.864	0.00	0.00	C
ATOM	13206	C	THR	B	127	-16.319	84.524	167.318	0.00	0.00	C
ATOM	13207	O	THR	B	127	-17.137	85.020	168.132	0.00	0.00	O
ATOM	13208	CB	THR	B	127	-14.149	84.511	168.598	0.00	0.00	C
ATOM	13209	CG2	THR	B	127	-13.448	85.519	167.672	0.00	0.00	C
ATOM	13210	OG1	THR	B	127	-14.734	85.266	169.665	0.00	0.00	O
ATOM	13211	HN	THR	B	127	-13.739	82.847	166.638	0.00	0.00	H
ATOM	13212	HCA	THR	B	127	-15.677	83.012	168.632	0.00	0.00	H
ATOM	13213	HCB	THR	B	127	-13.392	83.845	169.026	0.00	0.00	H
ATOM	13214	HCG2	THR	B	127	-13.029	85.001	166.826	0.00	0.00	H
ATOM	13215	HCG2	THR	B	127	-14.152	86.249	167.280	0.00	0.00	H
ATOM	13216	HCG2	THR	B	127	-12.644	86.028	168.205	0.00	0.00	H
ATOM	13217	HOG1	THR	B	127	-15.643	85.328	169.337	0.00	0.00	H
ATOM	13218	N	PHE	B	128	-16.465	84.768	165.992	0.00	0.00	N
ATOM	13219	CA	PHE	B	128	-17.422	85.656	165.394	0.00	0.00	C
ATOM	13220	C	PHE	B	128	-18.653	84.871	165.147	0.00	0.00	C
ATOM	13221	O	PHE	B	128	-19.735	85.285	165.626	0.00	0.00	O
ATOM	13222	CB	PHE	B	128	-16.805	86.284	164.109	0.00	0.00	C
ATOM	13223	CG	PHE	B	128	-17.743	87.048	163.241	0.00	0.00	C
ATOM	13224	CD1	PHE	B	128	-18.332	88.244	163.706	0.00	0.00	C
ATOM	13225	CD2	PHE	B	128	-18.022	86.626	161.918	0.00	0.00	C
ATOM	13226	CE1	PHE	B	128	-19.129	89.032	162.855	0.00	0.00	C
ATOM	13227	CE2	PHE	B	128	-18.824	87.409	161.067	0.00	0.00	C
ATOM	13228	CZ	PHE	B	128	-19.360	88.623	161.532	0.00	0.00	C
ATOM	13229	HN	PHE	B	128	-15.971	84.235	165.361	0.00	0.00	H
ATOM	13230	HCA	PHE	B	128	-17.653	86.478	166.081	0.00	0.00	H
ATOM	13231	HCB	PHE	B	128	-15.997	86.958	164.407	0.00	0.00	H
ATOM	13232	HCB	PHE	B	128	-16.338	85.500	163.519	0.00	0.00	H
ATOM	13233	HCD1	PHE	B	128	-18.169	88.553	164.663	0.00	0.00	H
ATOM	13234	HCD2	PHE	B	128	-17.630	85.753	161.557	0.00	0.00	H
ATOM	13235	HCE1	PHE	B	128	-19.536	89.906	163.193	0.00	0.00	H
ATOM	13236	HCE2	PHE	B	128	-19.009	87.102	160.109	0.00	0.00	H
ATOM	13237	HCZ	PHE	B	128	-19.917	89.208	160.911	0.00	0.00	H
ATOM	13238	N	ARG	B	129	-18.606	83.670	164.513	0.00	0.00	N
ATOM	13239	CA	ARG	B	129	-19.746	82.794	164.399	0.00	0.00	C
ATOM	13240	C	ARG	B	129	-20.297	82.466	165.742	0.00	0.00	C
ATOM	13241	O	ARG	B	129	-21.542	82.497	165.897	0.00	0.00	O
ATOM	13242	CB	ARG	B	129	-19.511	81.541	163.504	0.00	0.00	C
ATOM	13243	CG	ARG	B	129	-18.644	80.405	164.114	0.00	0.00	C
ATOM	13244	CD	ARG	B	129	-19.384	79.379	165.019	0.00	0.00	C
ATOM	13245	NE	ARG	B	129	-18.478	78.831	165.980	0.00	0.00	N
ATOM	13246	CZ	ARG	B	129	-18.761	78.459	167.227	0.00	0.00	C
ATOM	13247	NH1	ARG	B	129	-19.988	78.358	167.719	0.00	0.00	N
ATOM	13248	NH2	ARG	B	129	-17.749	78.171	168.025	0.00	0.00	N
ATOM	13249	HN	ARG	B	129	-17.746	83.402	164.178	0.00	0.00	H
ATOM	13250	HNE	ARG	B	129	-17.557	78.693	165.746	0.00	0.00	H
ATOM	13251	HNH1	ARG	B	129	-20.746	78.547	167.155	0.00	0.00	H
ATOM	13252	HNH1	ARG	B	129	-20.117	78.077	168.632	0.00	0.00	H
ATOM	13253	HNH2	ARG	B	129	-16.845	78.264	167.712	0.00	0.00	H
ATOM	13254	HNH2	ARG	B	129	-17.913	77.871	168.925	0.00	0.00	H
ATOM	13255	HCA	ARG	B	129	-20.500	83.377	163.862	0.00	0.00	H
ATOM	13256	HCB	ARG	B	129	-20.477	81.125	163.204	0.00	0.00	H
ATOM	13257	HCB	ARG	B	129	-19.027	81.899	162.592	0.00	0.00	H
ATOM	13258	HCD	ARG	B	129	-20.231	79.851	165.515	0.00	0.00	H
ATOM	13259	HCD	ARG	B	129	-19.798	78.573	164.414	0.00	0.00	H
ATOM	13260	HCG	ARG	B	129	-18.149	79.856	163.312	0.00	0.00	H
ATOM	13261	HCG	ARG	B	129	-17.861	80.887	164.675	0.00	0.00	H
ATOM	13262	N	SER	B	130	-19.482	82.213	166.804	0.00	0.00	N
ATOM	13263	CA	SER	B	130	-19.938	82.011	168.157	0.00	0.00	C
ATOM	13264	C	SER	B	130	-20.799	83.092	168.709	0.00	0.00	C
ATOM	13265	O	SER	B	130	-21.452	82.851	169.752	0.00	0.00	O
ATOM	13266	CB	SER	B	130	-18.750	81.729	169.124	0.00	0.00	C
ATOM	13267	OG	SER	B	130	-18.217	82.888	169.779	0.00	0.00	O
ATOM	13268	HN	SER	B	130	-18.537	82.125	166.645	0.00	0.00	H
ATOM	13269	HCA	SER	B	130	-20.554	81.108	168.124	0.00	0.00	H
ATOM	13270	HCB	SER	B	130	-19.101	81.066	169.920	0.00	0.00	H
ATOM	13271	HCB	SER	B	130	-17.945	81.200	168.612	0.00	0.00	H
ATOM	13272	HOG	SER	B	130	-17.898	83.536	169.129	0.00	0.00	H
ATOM	13273	N	GLU	B	131	-20.896	84.301	168.106	0.00	0.00	N
ATOM	13274	CA	GLU	B	131	-21.703	85.402	168.530	0.00	0.00	C
ATOM	13275	C	GLU	B	131	-22.748	85.694	167.512	0.00	0.00	C
ATOM	13276	O	GLU	B	131	-23.554	86.613	167.764	0.00	0.00	O
ATOM	13277	CB	GLU	B	131	-20.750	86.618	168.762	0.00	0.00	C
ATOM	13278	CG	GLU	B	131	-19.770	86.422	169.959	0.00	0.00	C

ATOM	13279	CD	GLU	B	131	-18.668	87.395	170.059	0.00	0.00		C
ATOM	13280	OE1	GLU	B	131	-18.462	88.305	169.229	0.00	0.00		O
ATOM	13281	OE2	GLU	B	131	-17.839	87.309	170.988	0.00	0.00		O
ATOM	13282	HN	GLU	B	131	-20.404	84.476	167.301	0.00	0.00		H
ATOM	13283	HCA	GLU	B	131	-22.225	85.189	169.469	0.00	0.00		H
ATOM	13284	HCB	GLU	B	131	-20.176	86.801	167.848	0.00	0.00		H
ATOM	13285	HCB	GLU	B	131	-21.340	87.517	168.962	0.00	0.00		H
ATOM	13286	HCG	GLU	B	131	-20.339	86.461	170.891	0.00	0.00		H
ATOM	13287	HCG	GLU	B	131	-19.304	85.438	169.896	0.00	0.00		H
ATOM	13288	N	TRP	B	132	-22.920	85.011	166.351	0.00	0.00		N
ATOM	13289	CA	TRP	B	132	-23.842	85.384	165.306	0.00	0.00		C
ATOM	13290	C	TRP	B	132	-25.253	85.401	165.780	0.00	0.00		C
ATOM	13291	O	TRP	B	132	-25.968	86.417	165.601	0.00	0.00		O
ATOM	13292	CB	TRP	B	132	-23.634	84.451	164.083	0.00	0.00		C
ATOM	13293	CG	TRP	B	132	-24.347	84.916	162.874	0.00	0.00		C
ATOM	13294	CD1	TRP	B	132	-25.467	84.317	162.294	0.00	0.00		C
ATOM	13295	CD2	TRP	B	132	-24.052	86.026	162.081	0.00	0.00		C
ATOM	13296	CE2	TRP	B	132	-24.991	86.051	161.051	0.00	0.00		C
ATOM	13297	CE3	TRP	B	132	-23.047	87.009	162.157	0.00	0.00		C
ATOM	13298	NE1	TRP	B	132	-25.833	85.026	161.214	0.00	0.00		N
ATOM	13299	CZ2	TRP	B	132	-24.967	87.039	160.053	0.00	0.00		C
ATOM	13300	CZ3	TRP	B	132	-23.022	88.022	161.173	0.00	0.00		C
ATOM	13301	CH2	TRP	B	132	-23.971	88.036	160.125	0.00	0.00		C
ATOM	13302	HN	TRP	B	132	-22.401	84.217	166.213	0.00	0.00		H
ATOM	13303	HNE1	TRP	B	132	-26.577	84.850	160.643	0.00	0.00		H
ATOM	13304	HCA	TRP	B	132	-23.581	86.396	164.992	0.00	0.00		H
ATOM	13305	HCB	TRP	B	132	-22.574	84.412	163.833	0.00	0.00		H
ATOM	13306	HCB	TRP	B	132	-23.948	83.434	164.338	0.00	0.00		H
ATOM	13307	HCD1	TRP	B	132	-25.938	83.477	162.636	0.00	0.00		H
ATOM	13308	HCE3	TRP	B	132	-22.346	86.991	162.899	0.00	0.00		H
ATOM	13309	HCH2	TRP	B	132	-23.936	88.769	159.414	0.00	0.00		H
ATOM	13310	HCZ2	TRP	B	132	-25.658	87.036	159.300	0.00	0.00		H
ATOM	13311	HCZ3	TRP	B	132	-22.308	88.748	161.217	0.00	0.00		H
ATOM	13312	N	SER	B	133	-25.708	84.355	166.505	0.00	0.00		N
ATOM	13313	CA	SER	B	133	-26.981	84.266	167.164	0.00	0.00		C
ATOM	13314	C	SER	B	133	-27.268	85.353	168.138	0.00	0.00		C
ATOM	13315	O	SER	B	133	-28.443	85.468	168.562	0.00	0.00		O
ATOM	13316	CB	SER	B	133	-27.052	82.894	167.888	0.00	0.00		C
ATOM	13317	OG	SER	B	133	-25.980	82.718	168.823	0.00	0.00		O
ATOM	13318	HN	SER	B	133	-25.098	83.607	166.614	0.00	0.00		H
ATOM	13319	HCA	SER	B	133	-27.757	84.293	166.392	0.00	0.00		H
ATOM	13320	HCB	SER	B	133	-28.007	82.778	168.409	0.00	0.00		H
ATOM	13321	HCB	SER	B	133	-26.985	82.093	167.147	0.00	0.00		H
ATOM	13322	HOG	SER	B	133	-26.054	83.410	169.508	0.00	0.00		H
ATOM	13323	N	ASP	B	134	-26.303	86.198	168.574	0.00	0.00		N
ATOM	13324	CA	ASP	B	134	-26.440	87.213	169.573	0.00	0.00		C
ATOM	13325	C	ASP	B	134	-26.327	88.537	168.901	0.00	0.00		C
ATOM	13326	O	ASP	B	134	-27.142	89.443	169.172	0.00	0.00		O
ATOM	13327	CB	ASP	B	134	-25.359	86.989	170.669	0.00	0.00		C
ATOM	13328	CG	ASP	B	134	-25.310	85.644	171.275	0.00	0.00		C
ATOM	13329	OD1	ASP	B	134	-26.050	84.697	170.925	0.00	0.00		O
ATOM	13330	OD2	ASP	B	134	-24.484	85.415	172.182	0.00	0.00		O
ATOM	13331	HN	ASP	B	134	-25.422	86.145	168.205	0.00	0.00		H
ATOM	13332	HCA	ASP	B	134	-27.418	87.158	170.065	0.00	0.00		H
ATOM	13333	HCB	ASP	B	134	-24.368	87.202	170.262	0.00	0.00		H
ATOM	13334	HCB	ASP	B	134	-25.550	87.693	171.478	0.00	0.00		H
ATOM	13335	N	LEU	B	135	-25.426	88.750	167.915	0.00	0.00		N
ATOM	13336	CA	LEU	B	135	-25.386	89.871	167.015	0.00	0.00		C
ATOM	13337	C	LEU	B	135	-26.705	90.039	166.332	0.00	0.00		C
ATOM	13338	O	LEU	B	135	-27.283	91.152	166.367	0.00	0.00		O
ATOM	13339	CB	LEU	B	135	-24.218	89.703	165.994	0.00	0.00		C
ATOM	13340	CG	LEU	B	135	-22.778	89.679	166.610	0.00	0.00		C
ATOM	13341	CD1	LEU	B	135	-21.739	89.129	165.595	0.00	0.00		C
ATOM	13342	CD2	LEU	B	135	-22.309	91.065	167.121	0.00	0.00		C
ATOM	13343	HN	LEU	B	135	-24.782	88.057	167.803	0.00	0.00		H
ATOM	13344	HCA	LEU	B	135	-25.192	90.768	167.606	0.00	0.00		H
ATOM	13345	HCB	LEU	B	135	-24.387	88.772	165.447	0.00	0.00		H
ATOM	13346	HCB	LEU	B	135	-24.266	90.514	165.260	0.00	0.00		H
ATOM	13347	HCD1	LEU	B	135	-21.678	89.776	164.718	0.00	0.00		H
ATOM	13348	HCD1	LEU	B	135	-20.752	89.064	166.057	0.00	0.00		H
ATOM	13349	HCD1	LEU	B	135	-22.010	88.127	165.269	0.00	0.00		H
ATOM	13350	HCD2	LEU	B	135	-22.963	91.432	167.912	0.00	0.00		H
ATOM	13351	HCD2	LEU	B	135	-21.300	90.998	167.534	0.00	0.00		H
ATOM	13352	HCD2	LEU	B	135	-22.299	91.786	166.304	0.00	0.00		H
ATOM	13353	HCG	LEU	B	135	-22.772	89.007	167.470	0.00	0.00		H
ATOM	13354	N	LEU	B	136	-27.341	88.984	165.765	0.00	0.00		N
ATOM	13355	CA	LEU	B	136	-28.678	89.016	165.219	0.00	0.00		C
ATOM	13356	C	LEU	B	136	-29.765	89.188	166.235	0.00	0.00		C
ATOM	13357	O	LEU	B	136	-30.949	89.192	165.820	0.00	0.00		O
ATOM	13358	CB	LEU	B	136	-28.875	87.780	164.275	0.00	0.00		C



ATOM	13359	CG	LEU	B	136	-28.397	87.966	162.795	0.00	0.00	C
ATOM	13360	CD1	LEU	B	136	-29.360	88.862	161.966	0.00	0.00	C
ATOM	13361	CD2	LEU	B	136	-26.936	88.472	162.675	0.00	0.00	C
ATOM	13362	HN	LEU	B	136	-26.875	88.145	165.741	0.00	0.00	H
ATOM	13363	HCA	LEU	B	136	-28.761	89.913	164.602	0.00	0.00	H
ATOM	13364	HCB	LEU	B	136	-28.366	86.914	164.704	0.00	0.00	H
ATOM	13365	HCB	LEU	B	136	-29.931	87.501	164.235	0.00	0.00	H
ATOM	13366	HCD1	LEU	B	136	-30.376	88.464	162.002	0.00	0.00	H
ATOM	13367	HCD1	LEU	B	136	-29.381	89.885	162.341	0.00	0.00	H
ATOM	13368	HCD1	LEU	B	136	-29.048	88.892	160.920	0.00	0.00	H
ATOM	13369	HCD2	LEU	B	136	-26.255	87.786	163.180	0.00	0.00	H
ATOM	13370	HCD2	LEU	B	136	-26.649	88.537	161.627	0.00	0.00	H
ATOM	13371	HCD2	LEU	B	136	-26.817	89.463	163.111	0.00	0.00	H
ATOM	13372	HCG	LEU	B	136	-28.422	86.974	162.329	0.00	0.00	H
ATOM	13373	N	SER	B	137	-29.518	89.452	167.546	0.00	0.00	N
ATOM	13374	CA	SER	B	137	-30.446	89.959	168.526	0.00	0.00	C
ATOM	13375	C	SER	B	137	-30.115	91.394	168.782	0.00	0.00	C
ATOM	13376	O	SER	B	137	-30.998	92.280	168.659	0.00	0.00	O
ATOM	13377	CB	SER	B	137	-30.389	89.107	169.819	0.00	0.00	C
ATOM	13378	OG	SER	B	137	-31.412	89.515	170.727	0.00	0.00	O
ATOM	13379	HN	SER	B	137	-28.625	89.382	167.883	0.00	0.00	H
ATOM	13380	HCA	SER	B	137	-31.474	89.885	168.167	0.00	0.00	H
ATOM	13381	HCB	SER	B	137	-30.545	88.053	169.569	0.00	0.00	H
ATOM	13382	HCB	SER	B	137	-29.422	89.203	170.314	0.00	0.00	H
ATOM	13383	HOG	SER	B	137	-31.320	88.922	171.509	0.00	0.00	H
ATOM	13384	N	ASP	B	138	-28.835	91.757	169.052	0.00	0.00	N
ATOM	13385	CA	ASP	B	138	-28.334	93.100	169.202	0.00	0.00	C
ATOM	13386	C	ASP	B	138	-28.816	94.006	168.116	0.00	0.00	C
ATOM	13387	O	ASP	B	138	-29.288	95.126	168.417	0.00	0.00	O
ATOM	13388	CB	ASP	B	138	-26.779	93.142	169.200	0.00	0.00	C
ATOM	13389	CG	ASP	B	138	-26.043	92.407	170.238	0.00	0.00	C
ATOM	13390	OD1	ASP	B	138	-24.803	92.516	170.299	0.00	0.00	O
ATOM	13391	OD2	ASP	B	138	-26.554	91.650	171.085	0.00	0.00	O
ATOM	13392	HN	ASP	B	138	-28.214	91.035	169.134	0.00	0.00	H
ATOM	13393	HCA	ASP	B	138	-28.683	93.482	170.167	0.00	0.00	H
ATOM	13394	HCB	ASP	B	138	-26.419	92.777	168.240	0.00	0.00	H
ATOM	13395	HCB	ASP	B	138	-26.467	94.186	169.298	0.00	0.00	H
ATOM	13396	N	LEU	B	139	-28.759	93.609	166.820	0.00	0.00	N
ATOM	13397	CA	LEU	B	139	-29.247	94.358	165.693	0.00	0.00	C
ATOM	13398	C	LEU	B	139	-30.697	94.730	165.722	0.00	0.00	C
ATOM	13399	O	LEU	B	139	-31.062	95.537	164.829	0.00	0.00	O
ATOM	13400	CB	LEU	B	139	-28.880	93.626	164.360	0.00	0.00	C
ATOM	13401	CG	LEU	B	139	-27.367	93.575	163.968	0.00	0.00	C
ATOM	13402	CD1	LEU	B	139	-27.193	92.740	162.669	0.00	0.00	C
ATOM	13403	CD2	LEU	B	139	-26.722	94.975	163.765	0.00	0.00	C
ATOM	13404	HN	LEU	B	139	-28.319	92.773	166.652	0.00	0.00	H
ATOM	13405	HCA	LEU	B	139	-28.718	95.314	165.710	0.00	0.00	H
ATOM	13406	HCB	LEU	B	139	-29.267	92.604	164.429	0.00	0.00	H
ATOM	13407	HCB	LEU	B	139	-29.405	94.103	163.527	0.00	0.00	H
ATOM	13408	HCD1	LEU	B	139	-27.614	91.743	162.798	0.00	0.00	H
ATOM	13409	HCD1	LEU	B	139	-27.696	93.221	161.827	0.00	0.00	H
ATOM	13410	HCD1	LEU	B	139	-26.137	92.631	162.422	0.00	0.00	H
ATOM	13411	HCD2	LEU	B	139	-26.655	95.514	164.710	0.00	0.00	H
ATOM	13412	HCD2	LEU	B	139	-25.704	94.877	163.379	0.00	0.00	H
ATOM	13413	HCD2	LEU	B	139	-27.303	95.571	163.058	0.00	0.00	H
ATOM	13414	HCG	LEU	B	139	-26.811	93.072	164.763	0.00	0.00	H
ATOM	13415	N	GLN	B	140	-31.597	94.344	166.676	0.00	0.00	N
ATOM	13416	CA	GLN	B	140	-32.920	94.921	166.850	0.00	0.00	C
ATOM	13417	C	GLN	B	140	-32.835	96.236	167.515	0.00	0.00	C
ATOM	13418	O	GLN	B	140	-33.448	96.511	168.538	0.00	0.00	O
ATOM	13419	CB	GLN	B	140	-33.898	93.903	167.535	0.00	0.00	C
ATOM	13420	CG	GLN	B	140	-34.607	92.894	166.578	0.00	0.00	C
ATOM	13421	CD	GLN	B	140	-33.829	91.766	166.036	0.00	0.00	C
ATOM	13422	NE2	GLN	B	140	-32.602	91.441	166.441	0.00	0.00	N
ATOM	13423	OE1	GLN	B	140	-34.356	91.007	165.197	0.00	0.00	O
ATOM	13424	HN	GLN	B	140	-31.324	93.691	167.324	0.00	0.00	H
ATOM	13425	HNE2	GLN	B	140	-32.158	91.909	167.139	0.00	0.00	H
ATOM	13426	HNE2	GLN	B	140	-32.148	90.679	166.087	0.00	0.00	H
ATOM	13427	HCA	GLN	B	140	-33.346	95.133	165.863	0.00	0.00	H
ATOM	13428	HCB	GLN	B	140	-33.391	93.372	168.344	0.00	0.00	H
ATOM	13429	HCB	GLN	B	140	-34.714	94.461	168.004	0.00	0.00	H
ATOM	13430	HCG	GLN	B	140	-35.445	92.448	167.119	0.00	0.00	H
ATOM	13431	HCG	GLN	B	140	-35.030	93.445	165.735	0.00	0.00	H
ATOM	13432	N	LYS	B	141	-32.077	97.148	166.938	0.00	0.00	N
ATOM	13433	CA	LYS	B	141	-31.887	98.535	167.261	0.00	0.00	C
ATOM	13434	C	LYS	B	141	-31.805	99.285	165.968	0.00	0.00	C
ATOM	13435	O	LYS	B	141	-32.665	99.052	165.079	0.00	0.00	O
ATOM	13436	CB	LYS	B	141	-30.633	98.705	168.179	0.00	0.00	C
ATOM	13437	CG	LYS	B	141	-30.734	98.016	169.568	0.00	0.00	C
ATOM	13438	CD	LYS	B	141	-29.451	98.226	170.419	0.00	0.00	C

ATOM	13439	CE	LYS	B	141	-29.441	97.428	171.745	0.00	0.00		C
ATOM	13440	NZ	LYS	B	141	-30.508	97.865	172.650	0.00	0.00		N
ATOM	13441	HN	LYS	B	141	-31.628	96.790	166.178	0.00	0.00		H
ATOM	13442	HNZ	LYS	B	141	-30.411	98.862	172.839	0.00	0.00		H
ATOM	13443	HNZ	LYS	B	141	-31.416	97.691	172.221	0.00	0.00		H
ATOM	13444	HNZ	LYS	B	141	-30.448	97.350	173.527	0.00	0.00		H
ATOM	13445	HCA	LYS	B	141	-32.762	98.922	167.791	0.00	0.00		H
ATOM	13446	HCB	LYS	B	141	-29.756	98.314	167.653	0.00	0.00		H
ATOM	13447	HCB	LYS	B	141	-30.472	99.772	168.360	0.00	0.00		H
ATOM	13448	HCD	LYS	B	141	-28.582	97.909	169.836	0.00	0.00		H
ATOM	13449	HCD	LYS	B	141	-29.331	99.290	170.643	0.00	0.00		H
ATOM	13450	HCE	LYS	B	141	-29.557	96.360	171.541	0.00	0.00		H
ATOM	13451	HCE	LYS	B	141	-28.482	97.576	172.247	0.00	0.00		H
ATOM	13452	HCG	LYS	B	141	-31.600	98.418	170.102	0.00	0.00		H
ATOM	13453	HCG	LYS	B	141	-30.888	96.945	169.431	0.00	0.00		H
ATOM	13454	N	ALA	B	142	-30.812	100.174	165.703	0.00	0.00		N
ATOM	13455	CA	ALA	B	142	-30.612	100.899	164.477	0.00	0.00		C
ATOM	13456	C	ALA	B	142	-29.911	100.053	163.467	0.00	0.00		C
ATOM	13457	O	ALA	B	142	-28.821	100.397	162.950	0.00	0.00		O
ATOM	13458	CB	ALA	B	142	-29.886	102.222	164.832	0.00	0.00		C
ATOM	13459	HN	ALA	B	142	-30.153	100.312	166.398	0.00	0.00		H
ATOM	13460	HCA	ALA	B	142	-31.581	101.177	164.049	0.00	0.00		H
ATOM	13461	HCB	ALA	B	142	-30.474	102.795	165.553	0.00	0.00		H
ATOM	13462	HCB	ALA	B	142	-28.903	102.021	165.262	0.00	0.00		H
ATOM	13463	HCB	ALA	B	142	-29.757	102.833	163.935	0.00	0.00		H
ATOM	13464	N	GLY	B	143	-30.505	98.889	163.122	0.00	0.00		N
ATOM	13465	CA	GLY	B	143	-30.025	97.927	162.168	0.00	0.00		C
ATOM	13466	C	GLY	B	143	-30.708	98.033	160.862	0.00	0.00		C
ATOM	13467	O	GLY	B	143	-30.713	99.141	160.277	0.00	0.00		O
ATOM	13468	HN	GLY	B	143	-31.319	98.737	163.609	0.00	0.00		H
ATOM	13469	HCA	GLY	B	143	-28.954	98.049	161.990	0.00	0.00		H
ATOM	13470	HCA	GLY	B	143	-30.166	96.931	162.591	0.00	0.00		H
ATOM	13471	N	LYS	B	144	-31.269	96.943	160.285	0.00	0.00		N
ATOM	13472	CA	LYS	B	144	-31.943	96.898	159.010	0.00	0.00		C
ATOM	13473	C	LYS	B	144	-33.288	96.263	159.111	0.00	0.00		C
ATOM	13474	O	LYS	B	144	-33.699	95.777	160.191	0.00	0.00		O
ATOM	13475	CB	LYS	B	144	-31.019	96.185	157.969	0.00	0.00		C
ATOM	13476	CG	LYS	B	144	-29.777	97.018	157.534	0.00	0.00		C
ATOM	13477	CD	LYS	B	144	-30.104	98.158	156.524	0.00	0.00		C
ATOM	13478	CE	LYS	B	144	-28.952	99.178	156.371	0.00	0.00		C
ATOM	13479	NZ	LYS	B	144	-29.247	100.142	155.305	0.00	0.00		N
ATOM	13480	HN	LYS	B	144	-31.206	96.110	160.777	0.00	0.00		H
ATOM	13481	HNZ	LYS	B	144	-30.105	100.647	155.526	0.00	0.00		H
ATOM	13482	HNZ	LYS	B	144	-28.480	100.809	155.221	0.00	0.00		H
ATOM	13483	HNZ	LYS	B	144	-29.365	99.653	154.418	0.00	0.00		H
ATOM	13484	HCA	LYS	B	144	-32.147	97.914	158.662	0.00	0.00		H
ATOM	13485	HCB	LYS	B	144	-30.671	95.243	158.404	0.00	0.00		H
ATOM	13486	HCB	LYS	B	144	-31.582	95.927	157.068	0.00	0.00		H
ATOM	13487	HCD	LYS	B	144	-30.323	97.710	155.550	0.00	0.00		H
ATOM	13488	HCD	LYS	B	144	-30.991	98.708	156.843	0.00	0.00		H
ATOM	13489	HCE	LYS	B	144	-28.820	99.730	157.303	0.00	0.00		H
ATOM	13490	HCE	LYS	B	144	-28.021	98.663	156.138	0.00	0.00		H
ATOM	13491	HCG	LYS	B	144	-29.293	97.429	158.421	0.00	0.00		H
ATOM	13492	HCG	LYS	B	144	-29.055	96.344	157.063	0.00	0.00		H
ATOM	13493	N	ILE	B	145	-34.097	96.263	158.025	0.00	0.00		N
ATOM	13494	CA	ILE	B	145	-35.462	95.811	157.977	0.00	0.00		C
ATOM	13495	C	ILE	B	145	-35.622	94.352	158.253	0.00	0.00		C
ATOM	13496	O	ILE	B	145	-34.926	93.508	157.626	0.00	0.00		O
ATOM	13497	CB	ILE	B	145	-36.127	96.259	156.627	0.00	0.00		C
ATOM	13498	CG1	ILE	B	145	-37.683	96.088	156.665	0.00	0.00		C
ATOM	13499	CG2	ILE	B	145	-35.495	95.574	155.379	0.00	0.00		C
ATOM	13500	CD1	ILE	B	145	-38.439	96.718	155.471	0.00	0.00		C
ATOM	13501	HN	ILE	B	145	-33.724	96.627	157.208	0.00	0.00		H
ATOM	13502	HCA	ILE	B	145	-35.977	96.365	158.770	0.00	0.00		H
ATOM	13503	HCB	ILE	B	145	-35.934	97.334	156.527	0.00	0.00		H
ATOM	13504	HCD1	ILE	B	145	-38.166	97.769	155.355	0.00	0.00		H
ATOM	13505	HCD1	ILE	B	145	-38.215	96.187	154.545	0.00	0.00		H
ATOM	13506	HCD1	ILE	B	145	-39.516	96.658	155.643	0.00	0.00		H
ATOM	13507	HCG1	ILE	B	145	-37.939	95.027	156.715	0.00	0.00		H
ATOM	13508	HCG1	ILE	B	145	-38.069	96.560	157.574	0.00	0.00		H
ATOM	13509	HCG2	ILE	B	145	-34.406	95.607	155.425	0.00	0.00		H
ATOM	13510	HCG2	ILE	B	145	-35.807	94.532	155.308	0.00	0.00		H
ATOM	13511	HCG2	ILE	B	145	-35.797	96.086	154.464	0.00	0.00		H
ATOM	13512	N	THR	B	146	-36.575	93.964	159.145	0.00	0.00		N
ATOM	13513	CA	THR	B	146	-36.925	92.617	159.547	0.00	0.00		C
ATOM	13514	C	THR	B	146	-37.759	91.900	158.536	0.00	0.00		C
ATOM	13515	O	THR	B	146	-38.773	91.216	158.802	0.00	0.00		O
ATOM	13516	CB	THR	B	146	-37.461	92.648	161.013	0.00	0.00		C
ATOM	13517	CG2	THR	B	146	-38.875	93.244	161.200	0.00	0.00		C
ATOM	13518	OG1	THR	B	146	-37.419	91.343	161.583	0.00	0.00		O

ATOM	13519	HN	THR	B	146	-37.090	94.681	159.546	0.00	0.00	H
ATOM	13520	HCA	THR	B	146	-36.004	92.034	159.586	0.00	0.00	H
ATOM	13521	HCB	THR	B	146	-36.774	93.261	161.609	0.00	0.00	H
ATOM	13522	HCG2	THR	B	146	-39.635	92.604	160.752	0.00	0.00	H
ATOM	13523	HCG2	THR	B	146	-39.096	93.335	162.265	0.00	0.00	H
ATOM	13524	HCG2	THR	B	146	-38.938	94.235	160.749	0.00	0.00	H
ATOM	13525	HOG1	THR	B	146	-36.460	91.173	161.635	0.00	0.00	H
ATOM	13526	N	ALA	B	147	-37.291	91.975	157.279	0.00	0.00	N
ATOM	13527	CA	ALA	B	147	-37.686	91.306	156.080	0.00	0.00	C
ATOM	13528	C	ALA	B	147	-36.468	90.878	155.333	0.00	0.00	C
ATOM	13529	O	ALA	B	147	-36.576	89.984	154.462	0.00	0.00	O
ATOM	13530	CB	ALA	B	147	-38.569	92.253	155.235	0.00	0.00	C
ATOM	13531	HN	ALA	B	147	-36.527	92.532	157.238	0.00	0.00	H
ATOM	13532	HCA	ALA	B	147	-38.267	90.412	156.333	0.00	0.00	H
ATOM	13533	HCB	ALA	B	147	-39.439	92.573	155.813	0.00	0.00	H
ATOM	13534	HCB	ALA	B	147	-38.009	93.139	154.928	0.00	0.00	H
ATOM	13535	HCB	ALA	B	147	-38.924	91.739	154.338	0.00	0.00	H
ATOM	13536	N	GLU	B	148	-35.257	91.430	155.607	0.00	0.00	N
ATOM	13537	CA	GLU	B	148	-33.981	91.044	155.088	0.00	0.00	C
ATOM	13538	C	GLU	B	148	-33.212	90.489	156.229	0.00	0.00	C
ATOM	13539	O	GLU	B	148	-32.752	89.325	156.133	0.00	0.00	O
ATOM	13540	CB	GLU	B	148	-33.249	92.262	154.456	0.00	0.00	C
ATOM	13541	CG	GLU	B	148	-33.927	92.777	153.155	0.00	0.00	C
ATOM	13542	CD	GLU	B	148	-33.200	93.898	152.536	0.00	0.00	C
ATOM	13543	OE1	GLU	B	148	-33.045	94.978	153.144	0.00	0.00	O
ATOM	13544	OE2	GLU	B	148	-32.731	93.807	151.383	0.00	0.00	O
ATOM	13545	HN	GLU	B	148	-35.220	92.137	156.250	0.00	0.00	H
ATOM	13546	HCA	GLU	B	148	-34.077	90.270	154.319	0.00	0.00	H
ATOM	13547	HCB	GLU	B	148	-33.195	93.079	155.183	0.00	0.00	H
ATOM	13548	HCB	GLU	B	148	-32.222	91.968	154.212	0.00	0.00	H
ATOM	13549	HCG	GLU	B	148	-33.994	91.957	152.435	0.00	0.00	H
ATOM	13550	HCG	GLU	B	148	-34.942	93.115	153.370	0.00	0.00	H
ATOM	13551	N	GLU	B	149	-33.088	91.182	157.396	0.00	0.00	N
ATOM	13552	CA	GLU	B	149	-32.366	90.690	158.548	0.00	0.00	C
ATOM	13553	C	GLU	B	149	-33.052	89.548	159.212	0.00	0.00	C
ATOM	13554	O	GLU	B	149	-32.450	88.933	160.121	0.00	0.00	O
ATOM	13555	CB	GLU	B	149	-31.942	91.843	159.512	0.00	0.00	C
ATOM	13556	CG	GLU	B	149	-33.007	92.427	160.480	0.00	0.00	C
ATOM	13557	CD	GLU	B	149	-33.409	91.536	161.583	0.00	0.00	C
ATOM	13558	OE1	GLU	B	149	-32.590	91.237	162.478	0.00	0.00	O
ATOM	13559	OE2	GLU	B	149	-34.569	91.072	161.645	0.00	0.00	O
ATOM	13560	HN	GLU	B	149	-33.585	92.003	157.476	0.00	0.00	H
ATOM	13561	HCA	GLU	B	149	-31.425	90.273	158.170	0.00	0.00	H
ATOM	13562	HCB	GLU	B	149	-31.096	91.498	160.117	0.00	0.00	H
ATOM	13563	HCB	GLU	B	149	-31.577	92.671	158.899	0.00	0.00	H
ATOM	13564	HCG	GLU	B	149	-32.604	93.332	160.941	0.00	0.00	H
ATOM	13565	HCG	GLU	B	149	-33.875	92.726	159.907	0.00	0.00	H
ATOM	13566	N	ALA	B	150	-34.270	89.134	158.785	0.00	0.00	N
ATOM	13567	CA	ALA	B	150	-34.960	87.950	159.198	0.00	0.00	C
ATOM	13568	C	ALA	B	150	-34.658	86.779	158.326	0.00	0.00	C
ATOM	13569	O	ALA	B	150	-34.886	85.630	158.779	0.00	0.00	O
ATOM	13570	CB	ALA	B	150	-36.475	88.270	159.193	0.00	0.00	C
ATOM	13571	HN	ALA	B	150	-34.683	89.666	158.092	0.00	0.00	H
ATOM	13572	HCA	ALA	B	150	-34.677	87.695	160.225	0.00	0.00	H
ATOM	13573	HCB	ALA	B	150	-36.686	89.105	159.865	0.00	0.00	H
ATOM	13574	HCB	ALA	B	150	-36.814	88.536	158.189	0.00	0.00	H
ATOM	13575	HCB	ALA	B	150	-37.049	87.406	159.537	0.00	0.00	H
ATOM	13576	N	THR	B	151	-34.115	86.916	157.089	0.00	0.00	N
ATOM	13577	CA	THR	B	151	-33.922	85.871	156.113	0.00	0.00	C
ATOM	13578	C	THR	B	151	-32.467	85.632	155.957	0.00	0.00	C
ATOM	13579	O	THR	B	151	-32.013	84.472	156.125	0.00	0.00	O
ATOM	13580	CB	THR	B	151	-34.581	86.236	154.748	0.00	0.00	C
ATOM	13581	CG2	THR	B	151	-36.117	86.377	154.837	0.00	0.00	C
ATOM	13582	OG1	THR	B	151	-34.059	87.461	154.237	0.00	0.00	O
ATOM	13583	HN	THR	B	151	-33.790	87.780	156.822	0.00	0.00	H
ATOM	13584	HCA	THR	B	151	-34.383	84.934	156.444	0.00	0.00	H
ATOM	13585	HCB	THR	B	151	-34.356	85.445	154.024	0.00	0.00	H
ATOM	13586	HCG2	THR	B	151	-36.563	85.453	155.211	0.00	0.00	H
ATOM	13587	HCG2	THR	B	151	-36.390	87.197	155.504	0.00	0.00	H
ATOM	13588	HCG2	THR	B	151	-36.532	86.582	153.848	0.00	0.00	H
ATOM	13589	HOG1	THR	B	151	-34.536	87.609	153.390	0.00	0.00	H
ATOM	13590	N	ARG	B	152	-31.623	86.677	155.767	0.00	0.00	N
ATOM	13591	CA	ARG	B	152	-30.185	86.609	155.755	0.00	0.00	C
ATOM	13592	C	ARG	B	152	-29.732	86.713	157.173	0.00	0.00	C
ATOM	13593	O	ARG	B	152	-28.956	87.610	157.576	0.00	0.00	O
ATOM	13594	CB	ARG	B	152	-29.614	87.687	154.784	0.00	0.00	C
ATOM	13595	CG	ARG	B	152	-30.112	87.590	153.309	0.00	0.00	C
ATOM	13596	CD	ARG	B	152	-29.766	86.261	152.593	0.00	0.00	C
ATOM	13597	NE	ARG	B	152	-30.131	86.328	151.215	0.00	0.00	N
ATOM	13598	CZ	ARG	B	152	-30.239	85.290	150.380	0.00	0.00	C

ATOM	13599	NH1	ARG	B	152	-30.056	84.026	150.734	0.00	0.00	N
ATOM	13600	NH2	ARG	B	152	-30.550	85.523	149.117	0.00	0.00	N
ATOM	13601	HN	ARG	B	152	-32.017	87.552	155.767	0.00	0.00	H
ATOM	13602	HNE	ARG	B	152	-30.287	87.202	150.832	0.00	0.00	H
ATOM	13603	HNH1	ARG	B	152	-29.827	83.812	151.646	0.00	0.00	H
ATOM	13604	HNH1	ARG	B	152	-30.157	83.329	150.077	0.00	0.00	H
ATOM	13605	HNH2	ARG	B	152	-30.691	86.428	148.815	0.00	0.00	H
ATOM	13606	HNH2	ARG	B	152	-30.636	84.789	148.497	0.00	0.00	H
ATOM	13607	HCA	ARG	B	152	-29.845	85.632	155.400	0.00	0.00	H
ATOM	13608	HCB	ARG	B	152	-29.879	88.678	155.165	0.00	0.00	H
ATOM	13609	HCB	ARG	B	152	-28.522	87.621	154.787	0.00	0.00	H
ATOM	13610	HCD	ARG	B	152	-28.691	86.078	152.666	0.00	0.00	H
ATOM	13611	HCD	ARG	B	152	-30.302	85.441	153.080	0.00	0.00	H
ATOM	13612	HCG	ARG	B	152	-31.196	87.734	153.283	0.00	0.00	H
ATOM	13613	HCG	ARG	B	152	-29.662	88.414	152.749	0.00	0.00	H
ATOM	13614	N	SER	B	153	-30.257	85.797	158.017	0.00	0.00	N
ATOM	13615	CA	SER	B	153	-30.146	85.737	159.443	0.00	0.00	C
ATOM	13616	C	SER	B	153	-29.277	84.604	159.832	0.00	0.00	C
ATOM	13617	O	SER	B	153	-28.069	84.635	159.510	0.00	0.00	O
ATOM	13618	CB	SER	B	153	-31.587	85.704	160.033	0.00	0.00	C
ATOM	13619	OG	SER	B	153	-32.340	84.534	159.685	0.00	0.00	O
ATOM	13620	HN	SER	B	153	-30.830	85.177	157.564	0.00	0.00	H
ATOM	13621	HCA	SER	B	153	-29.668	86.642	159.827	0.00	0.00	H
ATOM	13622	HCB	SER	B	153	-31.548	85.786	161.122	0.00	0.00	H
ATOM	13623	HCB	SER	B	153	-32.127	86.568	159.656	0.00	0.00	H
ATOM	13624	HOG	SER	B	153	-33.207	84.871	159.393	0.00	0.00	H
ATOM	13625	N	SER	B	154	-29.771	83.520	160.467	0.00	0.00	N
ATOM	13626	CA	SER	B	154	-29.018	82.372	160.909	0.00	0.00	C
ATOM	13627	C	SER	B	154	-28.375	81.620	159.792	0.00	0.00	C
ATOM	13628	O	SER	B	154	-27.444	80.811	160.032	0.00	0.00	O
ATOM	13629	CB	SER	B	154	-29.950	81.460	161.747	0.00	0.00	C
ATOM	13630	OG	SER	B	154	-29.217	80.420	162.393	0.00	0.00	O
ATOM	13631	HN	SER	B	154	-30.730	83.542	160.551	0.00	0.00	H
ATOM	13632	HCA	SER	B	154	-28.223	82.733	161.568	0.00	0.00	H
ATOM	13633	HCB	SER	B	154	-30.445	82.054	162.520	0.00	0.00	H
ATOM	13634	HCB	SER	B	154	-30.719	81.017	161.108	0.00	0.00	H
ATOM	13635	HOG	SER	B	154	-29.884	79.910	162.907	0.00	0.00	H
ATOM	13636	N	TYR	B	155	-28.766	81.862	158.517	0.00	0.00	N
ATOM	13637	CA	TYR	B	155	-28.249	81.285	157.313	0.00	0.00	C
ATOM	13638	C	TYR	B	155	-26.948	81.924	156.947	0.00	0.00	C
ATOM	13639	O	TYR	B	155	-26.799	82.497	155.844	0.00	0.00	O
ATOM	13640	CB	TYR	B	155	-29.338	81.403	156.196	0.00	0.00	C
ATOM	13641	CG	TYR	B	155	-30.569	80.598	156.438	0.00	0.00	C
ATOM	13642	CD1	TYR	B	155	-31.547	81.023	157.369	0.00	0.00	C
ATOM	13643	CD2	TYR	B	155	-30.798	79.399	155.721	0.00	0.00	C
ATOM	13644	CE1	TYR	B	155	-32.707	80.259	157.596	0.00	0.00	C
ATOM	13645	CE2	TYR	B	155	-31.965	78.642	155.937	0.00	0.00	C
ATOM	13646	CZ	TYR	B	155	-32.915	79.067	156.881	0.00	0.00	C
ATOM	13647	OH	TYR	B	155	-34.025	78.326	157.097	0.00	0.00	O
ATOM	13648	HN	TYR	B	155	-29.450	82.537	158.408	0.00	0.00	H
ATOM	13649	HCA	TYR	B	155	-28.051	80.220	157.471	0.00	0.00	H
ATOM	13650	HCB	TYR	B	155	-29.622	82.452	156.064	0.00	0.00	H
ATOM	13651	HCB	TYR	B	155	-28.891	81.089	155.249	0.00	0.00	H
ATOM	13652	HCD1	TYR	B	155	-31.428	81.898	157.884	0.00	0.00	H
ATOM	13653	HCD2	TYR	B	155	-30.116	79.065	155.036	0.00	0.00	H
ATOM	13654	HCE1	TYR	B	155	-33.399	80.575	158.279	0.00	0.00	H
ATOM	13655	HCE2	TYR	B	155	-32.119	77.779	155.411	0.00	0.00	H
ATOM	13656	HOH	TYR	B	155	-34.696	78.620	157.751	0.00	0.00	H
ATOM	13657	N	LEU	B	156	-25.915	81.852	157.815	0.00	0.00	N
ATOM	13658	CA	LEU	B	156	-24.553	82.249	157.562	0.00	0.00	C
ATOM	13659	C	LEU	B	156	-23.683	81.044	157.555	0.00	0.00	C
ATOM	13660	O	LEU	B	156	-23.522	80.391	158.614	0.00	0.00	O
ATOM	13661	CB	LEU	B	156	-24.046	83.329	158.568	0.00	0.00	C
ATOM	13662	CG	LEU	B	156	-22.618	83.896	158.234	0.00	0.00	C
ATOM	13663	CD1	LEU	B	156	-22.635	84.917	157.062	0.00	0.00	C
ATOM	13664	CD2	LEU	B	156	-21.940	84.536	159.473	0.00	0.00	C
ATOM	13665	HN	LEU	B	156	-26.169	81.474	158.659	0.00	0.00	H
ATOM	13666	HCA	LEU	B	156	-24.495	82.713	156.579	0.00	0.00	H
ATOM	13667	HCB	LEU	B	156	-24.761	84.155	158.591	0.00	0.00	H
ATOM	13668	HCB	LEU	B	156	-24.044	82.885	159.568	0.00	0.00	H
ATOM	13669	HCD1	LEU	B	156	-22.991	84.452	156.143	0.00	0.00	H
ATOM	13670	HCD1	LEU	B	156	-23.283	85.764	157.297	0.00	0.00	H
ATOM	13671	HCD1	LEU	B	156	-21.628	85.294	156.870	0.00	0.00	H
ATOM	13672	HCD2	LEU	B	156	-21.929	83.840	160.314	0.00	0.00	H
ATOM	13673	HCD2	LEU	B	156	-20.907	84.808	159.246	0.00	0.00	H
ATOM	13674	HCD2	LEU	B	156	-22.470	85.437	159.769	0.00	0.00	H
ATOM	13675	HCG	LEU	B	156	-21.971	83.068	157.932	0.00	0.00	H
ATOM	13676	N	ASN	B	157	-23.029	80.698	156.421	0.00	0.00	N
ATOM	13677	CA	ASN	B	157	-21.989	79.708	156.328	0.00	0.00	C
ATOM	13678	C	ASN	B	157	-20.653	80.358	156.418	0.00	0.00	C

ATOM	13679	O	ASN	B	157	-20.382	81.309	155.652	0.00	0.00	O
ATOM	13680	CB	ASN	B	157	-22.100	78.904	155.004	0.00	0.00	C
ATOM	13681	CG	ASN	B	157	-23.285	78.045	154.904	0.00	0.00	C
ATOM	13682	ND2	ASN	B	157	-24.031	78.008	153.798	0.00	0.00	N
ATOM	13683	OD1	ASN	B	157	-23.571	77.241	155.816	0.00	0.00	O
ATOM	13684	HN	ASN	B	157	-23.265	81.199	155.636	0.00	0.00	H
ATOM	13685	HND2	ASN	B	157	-23.850	78.615	153.074	0.00	0.00	H
ATOM	13686	HND2	ASN	B	157	-24.672	77.299	153.734	0.00	0.00	H
ATOM	13687	HCA	ASN	B	157	-22.070	78.990	157.152	0.00	0.00	H
ATOM	13688	HCB	ASN	B	157	-22.062	79.580	154.149	0.00	0.00	H
ATOM	13689	HCB	ASN	B	157	-21.244	78.230	154.932	0.00	0.00	H
ATOM	13690	N	ILE	B	158	-19.724	79.899	157.285	0.00	0.00	N
ATOM	13691	CA	ILE	B	158	-18.369	80.360	157.427	0.00	0.00	C
ATOM	13692	C	ILE	B	158	-17.442	79.243	157.100	0.00	0.00	C
ATOM	13693	O	ILE	B	158	-17.526	78.163	157.739	0.00	0.00	O
ATOM	13694	CB	ILE	B	158	-18.078	80.997	158.832	0.00	0.00	C
ATOM	13695	CG1	ILE	B	158	-18.295	80.082	160.082	0.00	0.00	C
ATOM	13696	CG2	ILE	B	158	-18.795	82.368	159.003	0.00	0.00	C
ATOM	13697	CD1	ILE	B	158	-19.744	79.601	160.362	0.00	0.00	C
ATOM	13698	HN	ILE	B	158	-19.991	79.162	157.848	0.00	0.00	H
ATOM	13699	HCA	ILE	B	158	-18.174	81.152	156.700	0.00	0.00	H
ATOM	13700	HCB	ILE	B	158	-17.008	81.240	158.835	0.00	0.00	H
ATOM	13701	HCD1	ILE	B	158	-20.476	80.387	160.177	0.00	0.00	H
ATOM	13702	HCD1	ILE	B	158	-19.989	78.734	159.750	0.00	0.00	H
ATOM	13703	HCD1	ILE	B	158	-19.844	79.303	161.403	0.00	0.00	H
ATOM	13704	HCG1	ILE	B	158	-17.648	79.207	160.011	0.00	0.00	H
ATOM	13705	HCG1	ILE	B	158	-17.939	80.632	160.953	0.00	0.00	H
ATOM	13706	HCG2	ILE	B	158	-18.463	83.068	158.237	0.00	0.00	H
ATOM	13707	HCG2	ILE	B	158	-19.873	82.257	158.915	0.00	0.00	H
ATOM	13708	HCG2	ILE	B	158	-18.567	82.810	159.976	0.00	0.00	H
ATOM	13709	N	VAL	B	159	-16.522	79.395	156.114	0.00	0.00	N
ATOM	13710	CA	VAL	B	159	-15.490	78.438	155.790	0.00	0.00	C
ATOM	13711	C	VAL	B	159	-14.142	79.015	156.036	0.00	0.00	C
ATOM	13712	O	VAL	B	159	-13.810	80.098	155.497	0.00	0.00	O
ATOM	13713	CB	VAL	B	159	-15.658	77.862	154.342	0.00	0.00	C
ATOM	13714	CG1	VAL	B	159	-14.354	77.236	153.770	0.00	0.00	C
ATOM	13715	CG2	VAL	B	159	-16.775	76.778	154.310	0.00	0.00	C
ATOM	13716	HN	VAL	B	159	-16.567	80.215	155.609	0.00	0.00	H
ATOM	13717	HCA	VAL	B	159	-15.574	77.578	156.455	0.00	0.00	H
ATOM	13718	HCB	VAL	B	159	-15.941	78.680	153.673	0.00	0.00	H
ATOM	13719	HCG1	VAL	B	159	-13.936	76.508	154.468	0.00	0.00	H
ATOM	13720	HCG1	VAL	B	159	-14.559	76.736	152.833	0.00	0.00	H
ATOM	13721	HCG1	VAL	B	159	-13.604	78.004	153.572	0.00	0.00	H
ATOM	13722	HCG2	VAL	B	159	-16.461	75.894	154.864	0.00	0.00	H
ATOM	13723	HCG2	VAL	B	159	-17.694	77.150	154.763	0.00	0.00	H
ATOM	13724	HCG2	VAL	B	159	-16.991	76.467	153.289	0.00	0.00	H
ATOM	13725	N	GLY	B	160	-13.263	78.285	156.761	0.00	0.00	N
ATOM	13726	CA	GLY	B	160	-11.865	78.541	156.904	0.00	0.00	C
ATOM	13727	C	GLY	B	160	-11.046	77.939	155.826	0.00	0.00	C
ATOM	13728	O	GLY	B	160	-11.138	76.710	155.595	0.00	0.00	O
ATOM	13729	HN	GLY	B	160	-13.617	77.492	157.168	0.00	0.00	H
ATOM	13730	HCA	GLY	B	160	-11.681	79.615	156.975	0.00	0.00	H
ATOM	13731	HCA	GLY	B	160	-11.547	78.089	157.844	0.00	0.00	H
ATOM	13732	N	LEU	B	161	-10.199	78.705	155.105	0.00	0.00	N
ATOM	13733	CA	LEU	B	161	-9.251	78.255	154.116	0.00	0.00	C
ATOM	13734	C	LEU	B	161	-7.880	78.639	154.586	0.00	0.00	C
ATOM	13735	O	LEU	B	161	-7.648	79.830	154.915	0.00	0.00	O
ATOM	13736	CB	LEU	B	161	-9.721	78.875	152.761	0.00	0.00	C
ATOM	13737	CG	LEU	B	161	-9.288	78.132	151.464	0.00	0.00	C
ATOM	13738	CD1	LEU	B	161	-9.967	78.743	150.210	0.00	0.00	C
ATOM	13739	CD2	LEU	B	161	-7.755	78.126	151.279	0.00	0.00	C
ATOM	13740	HN	LEU	B	161	-10.264	79.653	155.237	0.00	0.00	H
ATOM	13741	HCA	LEU	B	161	-9.283	77.166	154.017	0.00	0.00	H
ATOM	13742	HCB	LEU	B	161	-10.817	78.894	152.752	0.00	0.00	H
ATOM	13743	HCB	LEU	B	161	-9.391	79.908	152.712	0.00	0.00	H
ATOM	13744	HCD1	LEU	B	161	-11.052	78.705	150.302	0.00	0.00	H
ATOM	13745	HCD1	LEU	B	161	-9.669	79.780	150.069	0.00	0.00	H
ATOM	13746	HCD1	LEU	B	161	-9.686	78.182	149.319	0.00	0.00	H
ATOM	13747	HCD2	LEU	B	161	-7.294	77.446	151.996	0.00	0.00	H
ATOM	13748	HCD2	LEU	B	161	-7.493	77.788	150.277	0.00	0.00	H
ATOM	13749	HCD2	LEU	B	161	-7.339	79.123	151.418	0.00	0.00	H
ATOM	13750	HCG	LEU	B	161	-9.628	77.095	151.535	0.00	0.00	H
ATOM	13751	N	VAL	B	162	-6.896	77.716	154.766	0.00	0.00	N
ATOM	13752	CA	VAL	B	162	-5.729	77.911	155.600	0.00	0.00	C
ATOM	13753	C	VAL	B	162	-4.546	78.471	154.876	0.00	0.00	C
ATOM	13754	O	VAL	B	162	-3.897	77.761	154.067	0.00	0.00	O
ATOM	13755	CB	VAL	B	162	-5.347	76.637	156.433	0.00	0.00	C
ATOM	13756	CG1	VAL	B	162	-4.468	77.026	157.659	0.00	0.00	C
ATOM	13757	CG2	VAL	B	162	-6.575	75.839	156.943	0.00	0.00	C
ATOM	13758	HN	VAL	B	162	-7.028	76.840	154.374	0.00	0.00	H

ATOM	13759	HCA	VAL	B	162	-6.029	78.640	156.355	0.00	0.00	H
ATOM	13760	HC	VAL	B	162	-4.771	75.955	155.797	0.00	0.00	H
ATOM	13761	HCG1	VAL	B	162	-4.983	77.737	158.307	0.00	0.00	H
ATOM	13762	HCG1	VAL	B	162	-4.240	76.145	158.253	0.00	0.00	H
ATOM	13763	HCG1	VAL	B	162	-3.530	77.482	157.334	0.00	0.00	H
ATOM	13764	HCG2	VAL	B	162	-7.166	75.461	156.106	0.00	0.00	H
ATOM	13765	HCG2	VAL	B	162	-6.258	74.978	157.535	0.00	0.00	H
ATOM	13766	HCG2	VAL	B	162	-7.205	76.480	157.561	0.00	0.00	H
ATOM	13767	N	GLY	B	163	-4.145	79.728	155.183	0.00	0.00	N
ATOM	13768	CA	GLY	B	163	-3.028	80.455	154.649	0.00	0.00	C
ATOM	13769	C	GLY	B	163	-2.009	80.691	155.693	0.00	0.00	C
ATOM	13770	O	GLY	B	163	-2.330	81.336	156.717	0.00	0.00	O
ATOM	13771	HN	GLY	B	163	-4.660	80.164	155.861	0.00	0.00	H
ATOM	13772	HCA	GLY	B	163	-2.581	79.935	153.802	0.00	0.00	H
ATOM	13773	HCA	GLY	B	163	-3.385	81.421	154.288	0.00	0.00	H
ATOM	13774	N	SER	B	164	-0.751	80.222	155.546	0.00	0.00	N
ATOM	13775	CA	SER	B	164	0.301	80.266	156.528	0.00	0.00	C
ATOM	13776	C	SER	B	164	1.558	79.748	155.941	0.00	0.00	C
ATOM	13777	O	SER	B	164	1.586	78.617	155.406	0.00	0.00	O
ATOM	13778	CB	SER	B	164	-0.031	79.461	157.819	0.00	0.00	C
ATOM	13779	OG	SER	B	164	1.105	79.236	158.667	0.00	0.00	O
ATOM	13780	HN	SER	B	164	-0.540	79.839	154.694	0.00	0.00	H
ATOM	13781	HCA	SER	B	164	0.455	81.310	156.820	0.00	0.00	H
ATOM	13782	HC	SER	B	164	-0.783	80.005	158.396	0.00	0.00	H
ATOM	13783	HC	SER	B	164	-0.452	78.493	157.555	0.00	0.00	H
ATOM	13784	HOG	SER	B	164	0.698	79.070	159.537	0.00	0.00	H
ATOM	13785	N	ILE	B	165	2.693	80.470	156.047	0.00	0.00	N
ATOM	13786	CA	ILE	B	165	4.012	79.967	155.794	0.00	0.00	C
ATOM	13787	C	ILE	B	165	4.506	79.100	156.899	0.00	0.00	C
ATOM	13788	O	ILE	B	165	5.377	78.236	156.648	0.00	0.00	O
ATOM	13789	CB	ILE	B	165	5.020	81.125	155.485	0.00	0.00	C
ATOM	13790	CG1	ILE	B	165	5.446	82.025	156.692	0.00	0.00	C
ATOM	13791	CG2	ILE	B	165	4.573	81.962	154.254	0.00	0.00	C
ATOM	13792	CD1	ILE	B	165	4.312	82.745	157.451	0.00	0.00	C
ATOM	13793	HN	ILE	B	165	2.611	81.367	156.395	0.00	0.00	H
ATOM	13794	HCA	ILE	B	165	3.966	79.343	154.897	0.00	0.00	H
ATOM	13795	HC	ILE	B	165	5.945	80.631	155.180	0.00	0.00	H
ATOM	13796	HCD1	ILE	B	165	3.691	83.318	156.765	0.00	0.00	H
ATOM	13797	HCD1	ILE	B	165	3.689	82.031	157.986	0.00	0.00	H
ATOM	13798	HCD1	ILE	B	165	4.744	83.418	158.190	0.00	0.00	H
ATOM	13799	HCG1	ILE	B	165	5.990	81.412	157.416	0.00	0.00	H
ATOM	13800	HCG1	ILE	B	165	6.153	82.780	156.335	0.00	0.00	H
ATOM	13801	HCG2	ILE	B	165	4.359	81.310	153.404	0.00	0.00	H
ATOM	13802	HCG2	ILE	B	165	3.679	82.547	154.470	0.00	0.00	H
ATOM	13803	HCG2	ILE	B	165	5.374	82.636	153.956	0.00	0.00	H
ATOM	13804	N	ASP	B	166	4.035	79.224	158.161	0.00	0.00	N
ATOM	13805	CA	ASP	B	166	4.583	78.603	159.330	0.00	0.00	C
ATOM	13806	C	ASP	B	166	4.183	77.176	159.367	0.00	0.00	C
ATOM	13807	O	ASP	B	166	5.024	76.313	159.717	0.00	0.00	O
ATOM	13808	CB	ASP	B	166	4.051	79.331	160.599	0.00	0.00	C
ATOM	13809	CG	ASP	B	166	4.573	80.688	160.789	0.00	0.00	C
ATOM	13810	OD1	ASP	B	166	5.717	80.891	161.248	0.00	0.00	O
ATOM	13811	OD2	ASP	B	166	3.847	81.681	160.585	0.00	0.00	O
ATOM	13812	HN	ASP	B	166	3.194	79.681	158.278	0.00	0.00	H
ATOM	13813	HCA	ASP	B	166	5.677	78.675	159.318	0.00	0.00	H
ATOM	13814	HC	ASP	B	166	2.962	79.379	160.565	0.00	0.00	H
ATOM	13815	HC	ASP	B	166	4.320	78.768	161.490	0.00	0.00	H
ATOM	13816	N	ASN	B	167	2.899	76.855	159.071	0.00	0.00	N
ATOM	13817	CA	ASN	B	167	2.277	75.560	159.182	0.00	0.00	C
ATOM	13818	C	ASN	B	167	1.890	75.346	160.604	0.00	0.00	C
ATOM	13819	O	ASN	B	167	2.091	74.266	161.207	0.00	0.00	O
ATOM	13820	CB	ASN	B	167	3.114	74.414	158.522	0.00	0.00	C
ATOM	13821	CG	ASN	B	167	2.322	73.342	157.899	0.00	0.00	C
ATOM	13822	ND2	ASN	B	167	2.270	72.097	158.384	0.00	0.00	N
ATOM	13823	OD1	ASN	B	167	1.696	73.577	156.845	0.00	0.00	O
ATOM	13824	HN	ASN	B	167	2.327	77.602	158.855	0.00	0.00	H
ATOM	13825	HND2	ASN	B	167	2.747	71.871	159.194	0.00	0.00	H
ATOM	13826	HND2	ASN	B	167	1.765	71.426	157.922	0.00	0.00	H
ATOM	13827	HCA	ASN	B	167	1.343	75.659	158.634	0.00	0.00	H
ATOM	13828	HC	ASN	B	167	3.739	74.835	157.733	0.00	0.00	H
ATOM	13829	HC	ASN	B	167	3.786	73.982	159.263	0.00	0.00	H
ATOM	13830	N	ASP	B	168	1.309	76.380	161.248	0.00	0.00	N
ATOM	13831	CA	ASP	B	168	1.052	76.537	162.644	0.00	0.00	C
ATOM	13832	C	ASP	B	168	-0.284	76.066	163.079	0.00	0.00	C
ATOM	13833	O	ASP	B	168	-0.519	76.029	164.311	0.00	0.00	O
ATOM	13834	CB	ASP	B	168	1.238	78.056	162.968	0.00	0.00	C
ATOM	13835	CG	ASP	B	168	0.489	79.024	162.133	0.00	0.00	C
ATOM	13836	OD1	ASP	B	168	-0.217	78.694	161.152	0.00	0.00	O
ATOM	13837	OD2	ASP	B	168	0.616	80.244	162.349	0.00	0.00	O
ATOM	13838	HN	ASP	B	168	1.041	77.141	160.723	0.00	0.00	H

ATOM	13839	HCA	ASP	B	168	1.791	75.963	163.205	0.00	0.00	H	
ATOM	13840	HC	B	ASP	B	168	0.972	78.246	164.010	0.00	0.00	H
ATOM	13841	HC	B	ASP	B	168	2.292	78.308	162.860	0.00	0.00	H
ATOM	13842	N	PHE	B	169	-1.209	75.689	162.172	0.00	0.00	N	
ATOM	13843	CA	PHE	B	169	-2.594	75.436	162.418	0.00	0.00	C	
ATOM	13844	C	PHE	B	169	-2.889	73.982	162.325	0.00	0.00	C	
ATOM	13845	O	PHE	B	169	-2.600	73.344	161.282	0.00	0.00	O	
ATOM	13846	CB	PHE	B	169	-3.382	76.283	161.382	0.00	0.00	C	
ATOM	13847	CG	PHE	B	169	-4.834	76.308	161.680	0.00	0.00	C	
ATOM	13848	CD1	PHE	B	169	-5.724	75.443	161.008	0.00	0.00	C	
ATOM	13849	CD2	PHE	B	169	-5.341	77.179	162.670	0.00	0.00	C	
ATOM	13850	CE1	PHE	B	169	-7.092	75.460	161.320	0.00	0.00	C	
ATOM	13851	CE2	PHE	B	169	-6.715	77.208	162.969	0.00	0.00	C	
ATOM	13852	CZ	PHE	B	169	-7.594	76.348	162.289	0.00	0.00	C	
ATOM	13853	HN	PHE	B	169	-0.912	75.638	161.251	0.00	0.00	H	
ATOM	13854	HCA	PHE	B	169	-2.865	75.790	163.418	0.00	0.00	H	
ATOM	13855	HC	B	PHE	B	169	-3.010	77.313	161.375	0.00	0.00	H
ATOM	13856	HC	B	PHE	B	169	-3.198	75.884	160.381	0.00	0.00	H
ATOM	13857	HCD1	PHE	B	169	-5.381	74.789	160.300	0.00	0.00	H	
ATOM	13858	HCD2	PHE	B	169	-4.707	77.796	163.180	0.00	0.00	H	
ATOM	13859	HCE1	PHE	B	169	-7.716	74.812	160.846	0.00	0.00	H	
ATOM	13860	HCE2	PHE	B	169	-7.071	77.852	163.678	0.00	0.00	H	
ATOM	13861	HCZ	PHE	B	169	-8.592	76.367	162.503	0.00	0.00	H	
ATOM	13862	N	CYS	B	170	-3.481	73.349	163.363	0.00	0.00	N	
ATOM	13863	CA	CYS	B	170	-3.688	71.931	163.458	0.00	0.00	C	
ATOM	13864	C	CYS	B	170	-4.978	71.542	162.831	0.00	0.00	C	
ATOM	13865	O	CYS	B	170	-6.044	72.072	163.221	0.00	0.00	O	
ATOM	13866	CB	CYS	B	170	-3.615	71.502	164.944	0.00	0.00	C	
ATOM	13867	SG	CYS	B	170	-1.954	71.726	165.623	0.00	0.00	S	
ATOM	13868	HN	CYS	B	170	-3.812	73.896	164.079	0.00	0.00	H	
ATOM	13869	HCA	CYS	B	170	-2.878	71.406	162.939	0.00	0.00	H	
ATOM	13870	HC	B	CYS	B	170	-4.321	72.084	165.541	0.00	0.00	H
ATOM	13871	HC	B	CYS	B	170	-3.872	70.445	165.039	0.00	0.00	H
ATOM	13872	HSG	CYS	B	170	-1.421	70.793	164.788	0.00	0.00	H	
ATOM	13873	N	GLY	B	171	-4.985	70.609	161.852	0.00	0.00	N	
ATOM	13874	CA	GLY	B	171	-6.123	70.171	161.095	0.00	0.00	C	
ATOM	13875	C	GLY	B	171	-5.789	69.915	159.677	0.00	0.00	C	
ATOM	13876	O	GLY	B	171	-6.477	69.083	159.039	0.00	0.00	O	
ATOM	13877	HN	GLY	B	171	-4.132	70.195	161.645	0.00	0.00	H	
ATOM	13878	HCA	GLY	B	171	-6.475	69.240	161.544	0.00	0.00	H	
ATOM	13879	HCA	GLY	B	171	-6.943	70.893	161.125	0.00	0.00	H	
ATOM	13880	N	THR	B	172	-4.751	70.553	159.087	0.00	0.00	N	
ATOM	13881	CA	THR	B	172	-4.230	70.296	157.766	0.00	0.00	C	
ATOM	13882	C	THR	B	172	-2.852	69.759	157.865	0.00	0.00	C	
ATOM	13883	O	THR	B	172	-2.086	70.200	158.756	0.00	0.00	O	
ATOM	13884	CB	THR	B	172	-4.297	71.574	156.867	0.00	0.00	C	
ATOM	13885	CG2	THR	B	172	-3.243	72.657	157.150	0.00	0.00	C	
ATOM	13886	OG1	THR	B	172	-4.282	71.212	155.480	0.00	0.00	O	
ATOM	13887	HN	THR	B	172	-4.283	71.215	159.620	0.00	0.00	H	
ATOM	13888	HCA	THR	B	172	-4.832	69.527	157.272	0.00	0.00	H	
ATOM	13889	HC	B	THR	B	172	-5.253	72.071	157.042	0.00	0.00	H
ATOM	13890	HCG2	THR	B	172	-2.235	72.281	156.981	0.00	0.00	H	
ATOM	13891	HCG2	THR	B	172	-3.424	73.496	156.478	0.00	0.00	H	
ATOM	13892	HCG2	THR	B	172	-3.321	73.004	158.182	0.00	0.00	H	
ATOM	13893	HOG1	THR	B	172	-3.511	71.632	155.058	0.00	0.00	H	
ATOM	13894	N	ASP	B	173	-2.400	68.856	156.966	0.00	0.00	N	
ATOM	13895	CA	ASP	B	173	-1.020	68.470	156.839	0.00	0.00	C	
ATOM	13896	C	ASP	B	173	-0.218	69.629	156.346	0.00	0.00	C	
ATOM	13897	O	ASP	B	173	0.777	70.033	156.997	0.00	0.00	O	
ATOM	13898	CB	ASP	B	173	-0.914	67.250	155.881	0.00	0.00	C	
ATOM	13899	CG	ASP	B	173	-1.532	66.005	156.368	0.00	0.00	C	
ATOM	13900	OD1	ASP	B	173	-1.783	65.748	157.565	0.00	0.00	O	
ATOM	13901	OD2	ASP	B	173	-1.817	65.105	155.557	0.00	0.00	O	
ATOM	13902	HN	ASP	B	173	-3.038	68.499	156.344	0.00	0.00	H	
ATOM	13903	HCA	ASP	B	173	-0.632	68.166	157.818	0.00	0.00	H	
ATOM	13904	HC	B	ASP	B	173	-1.375	67.504	154.923	0.00	0.00	H
ATOM	13905	HC	B	ASP	B	173	0.138	67.024	155.692	0.00	0.00	H
ATOM	13906	N	MET	B	174	-0.604	70.257	155.210	0.00	0.00	N	
ATOM	13907	CA	MET	B	174	0.034	71.377	154.580	0.00	0.00	C	
ATOM	13908	C	MET	B	174	-0.900	72.540	154.524	0.00	0.00	C	
ATOM	13909	O	MET	B	174	-2.049	72.404	154.037	0.00	0.00	O	
ATOM	13910	CB	MET	B	174	0.512	70.961	153.157	0.00	0.00	C	
ATOM	13911	CG	MET	B	174	1.608	69.856	153.138	0.00	0.00	C	
ATOM	13912	SD	MET	B	174	3.240	70.427	153.685	0.00	0.00	S	
ATOM	13913	CE	MET	B	174	3.861	71.079	152.118	0.00	0.00	C	
ATOM	13914	HN	MET	B	174	-1.397	69.907	154.777	0.00	0.00	H	
ATOM	13915	HCA	MET	B	174	0.925	71.680	155.137	0.00	0.00	H	
ATOM	13916	HC	B	MET	B	174	-0.350	70.601	152.586	0.00	0.00	H
ATOM	13917	HC	B	MET	B	174	0.895	71.845	152.640	0.00	0.00	H
ATOM	13918	HCE	MET	B	174	3.886	70.294	151.362	0.00	0.00	H	

ATOM	13919	HCE	MET	B	174	3.234	71.900	151.773	0.00	0.00	H
ATOM	13920	HCE	MET	B	174	4.876	71.449	152.265	0.00	0.00	H
ATOM	13921	HCG	MET	B	174	1.312	69.036	153.793	0.00	0.00	H
ATOM	13922	HCG	MET	B	174	1.692	69.436	152.134	0.00	0.00	H
ATOM	13923	N	THR	B	175	-0.511	73.730	155.033	0.00	0.00	N
ATOM	13924	CA	THR	B	175	-1.127	75.023	154.839	0.00	0.00	C
ATOM	13925	C	THR	B	175	-0.661	75.687	153.588	0.00	0.00	C
ATOM	13926	O	THR	B	175	0.436	75.339	153.090	0.00	0.00	O
ATOM	13927	CB	THR	B	175	-0.781	75.952	156.042	0.00	0.00	C
ATOM	13928	CG2	THR	B	175	-1.248	75.434	157.418	0.00	0.00	C
ATOM	13929	OG1	THR	B	175	0.624	76.146	156.150	0.00	0.00	O
ATOM	13930	HN	THR	B	175	0.282	73.706	155.562	0.00	0.00	H
ATOM	13931	HCA	THR	B	175	-2.213	74.913	154.778	0.00	0.00	H
ATOM	13932	HCB	THR	B	175	-1.244	76.930	155.873	0.00	0.00	H
ATOM	13933	HCG2	THR	B	175	-2.316	75.278	157.402	0.00	0.00	H
ATOM	13934	HCG2	THR	B	175	-0.762	74.492	157.673	0.00	0.00	H
ATOM	13935	HCG2	THR	B	175	-1.026	76.166	158.196	0.00	0.00	H
ATOM	13936	HOG1	THR	B	175	0.995	75.280	156.360	0.00	0.00	H
ATOM	13937	N	ILE	B	176	-1.367	76.686	152.995	0.00	0.00	N
ATOM	13938	CA	ILE	B	176	-0.942	77.362	151.790	0.00	0.00	C
ATOM	13939	C	ILE	B	176	0.129	78.342	152.106	0.00	0.00	C
ATOM	13940	O	ILE	B	176	-0.108	79.268	152.918	0.00	0.00	O
ATOM	13941	CB	ILE	B	176	-2.154	78.024	151.055	0.00	0.00	C
ATOM	13942	CG1	ILE	B	176	-3.204	76.953	150.617	0.00	0.00	C
ATOM	13943	CG2	ILE	B	176	-1.713	78.874	149.824	0.00	0.00	C
ATOM	13944	CD1	ILE	B	176	-4.618	77.542	150.470	0.00	0.00	C
ATOM	13945	HN	ILE	B	176	-2.186	76.990	153.395	0.00	0.00	H
ATOM	13946	HCA	ILE	B	176	-0.538	76.621	151.095	0.00	0.00	H
ATOM	13947	HCB	ILE	B	176	-2.628	78.708	151.763	0.00	0.00	H
ATOM	13948	HCD1	ILE	B	176	-4.931	77.987	151.415	0.00	0.00	H
ATOM	13949	HCD1	ILE	B	176	-4.650	78.306	149.695	0.00	0.00	H
ATOM	13950	HCD1	ILE	B	176	-5.314	76.749	150.206	0.00	0.00	H
ATOM	13951	HCG1	ILE	B	176	-2.899	76.487	149.675	0.00	0.00	H
ATOM	13952	HCG1	ILE	B	176	-3.273	76.155	151.361	0.00	0.00	H
ATOM	13953	HCG2	ILE	B	176	-1.099	79.719	150.139	0.00	0.00	H
ATOM	13954	HCG2	ILE	B	176	-1.135	78.264	149.126	0.00	0.00	H
ATOM	13955	HCG2	ILE	B	176	-2.574	79.281	149.297	0.00	0.00	H
ATOM	13956	N	GLY	B	177	1.326	78.240	151.490	0.00	0.00	N
ATOM	13957	CA	GLY	B	177	2.446	79.118	151.638	0.00	0.00	C
ATOM	13958	C	GLY	B	177	3.647	78.404	152.098	0.00	0.00	C
ATOM	13959	O	GLY	B	177	4.773	78.862	151.789	0.00	0.00	O
ATOM	13960	HN	GLY	B	177	1.447	77.493	150.901	0.00	0.00	H
ATOM	13961	HCA	GLY	B	177	2.650	79.563	150.663	0.00	0.00	H
ATOM	13962	HCA	GLY	B	177	2.255	79.927	152.344	0.00	0.00	H
ATOM	13963	N	THR	B	178	3.539	77.297	152.870	0.00	0.00	N
ATOM	13964	CA	THR	B	178	4.652	76.611	153.466	0.00	0.00	C
ATOM	13965	C	THR	B	178	5.598	76.049	152.469	0.00	0.00	C
ATOM	13966	O	THR	B	178	6.822	76.087	152.732	0.00	0.00	O
ATOM	13967	CB	THR	B	178	4.178	75.542	154.494	0.00	0.00	C
ATOM	13968	CG2	THR	B	178	3.581	74.263	153.869	0.00	0.00	C
ATOM	13969	OG1	THR	B	178	5.273	75.136	155.312	0.00	0.00	O
ATOM	13970	HN	THR	B	178	2.647	76.947	153.028	0.00	0.00	H
ATOM	13971	HCA	THR	B	178	5.198	77.358	154.049	0.00	0.00	H
ATOM	13972	HCB	THR	B	178	3.429	76.002	155.148	0.00	0.00	H
ATOM	13973	HCG2	THR	B	178	4.366	73.687	153.379	0.00	0.00	H
ATOM	13974	HCG2	THR	B	178	3.126	73.642	154.638	0.00	0.00	H
ATOM	13975	HCG2	THR	B	178	2.824	74.515	153.128	0.00	0.00	H
ATOM	13976	HOG1	THR	B	178	4.885	74.506	155.950	0.00	0.00	H
ATOM	13977	N	ASP	B	179	5.185	75.549	151.277	0.00	0.00	N
ATOM	13978	CA	ASP	B	179	6.054	74.919	150.325	0.00	0.00	C
ATOM	13979	C	ASP	B	179	6.816	75.956	149.580	0.00	0.00	C
ATOM	13980	O	ASP	B	179	8.046	75.833	149.411	0.00	0.00	O
ATOM	13981	CB	ASP	B	179	5.244	73.966	149.410	0.00	0.00	C
ATOM	13982	CG	ASP	B	179	6.131	73.133	148.583	0.00	0.00	C
ATOM	13983	OD1	ASP	B	179	6.906	72.307	149.112	0.00	0.00	O
ATOM	13984	OD2	ASP	B	179	6.162	73.281	147.344	0.00	0.00	O
ATOM	13985	HN	ASP	B	179	4.271	75.706	150.994	0.00	0.00	H
ATOM	13986	HCA	ASP	B	179	6.760	74.290	150.873	0.00	0.00	H
ATOM	13987	HCB	ASP	B	179	4.636	73.297	150.019	0.00	0.00	H
ATOM	13988	HCB	ASP	B	179	4.568	74.541	148.775	0.00	0.00	H
ATOM	13989	N	SER	B	180	6.201	77.073	149.145	0.00	0.00	N
ATOM	13990	CA	SER	B	180	6.817	78.253	148.606	0.00	0.00	C
ATOM	13991	C	SER	B	180	7.807	78.857	149.532	0.00	0.00	C
ATOM	13992	O	SER	B	180	8.949	79.163	149.111	0.00	0.00	O
ATOM	13993	CB	SER	B	180	5.722	79.291	148.284	0.00	0.00	C
ATOM	13994	OG	SER	B	180	4.694	78.714	147.489	0.00	0.00	O
ATOM	13995	HN	SER	B	180	5.249	77.058	149.221	0.00	0.00	H
ATOM	13996	HCA	SER	B	180	7.312	77.986	147.668	0.00	0.00	H
ATOM	13997	HCB	SER	B	180	5.270	79.667	149.205	0.00	0.00	H
ATOM	13998	HCB	SER	B	180	6.155	80.131	147.736	0.00	0.00	H



ATOM	13999	HOG	SER	B	180	4.232	78.098	148.083	0.00	0.00	H
ATOM	14000	N	ALA	B	181	7.491	79.062	150.832	0.00	0.00	N
ATOM	14001	CA	ALA	B	181	8.414	79.469	151.847	0.00	0.00	C
ATOM	14002	C	ALA	B	181	9.575	78.552	151.941	0.00	0.00	C
ATOM	14003	O	ALA	B	181	10.728	79.032	151.801	0.00	0.00	O
ATOM	14004	CB	ALA	B	181	7.652	79.569	153.184	0.00	0.00	C
ATOM	14005	HN	ALA	B	181	6.582	78.927	151.106	0.00	0.00	H
ATOM	14006	HCA	ALA	B	181	8.774	80.468	151.586	0.00	0.00	H
ATOM	14007	HCB	ALA	B	181	6.796	80.231	153.057	0.00	0.00	H
ATOM	14008	HCB	ALA	B	181	7.291	78.594	153.509	0.00	0.00	H
ATOM	14009	HCB	ALA	B	181	8.295	79.977	153.962	0.00	0.00	H
ATOM	14010	N	LEU	B	182	9.387	77.216	152.086	0.00	0.00	N
ATOM	14011	CA	LEU	B	182	10.418	76.225	152.009	0.00	0.00	C
ATOM	14012	C	LEU	B	182	11.274	76.421	150.806	0.00	0.00	C
ATOM	14013	O	LEU	B	182	12.499	76.540	151.010	0.00	0.00	O
ATOM	14014	CB	LEU	B	182	9.840	74.779	152.107	0.00	0.00	C
ATOM	14015	CG	LEU	B	182	9.425	74.327	153.544	0.00	0.00	C
ATOM	14016	CD1	LEU	B	182	8.423	73.142	153.514	0.00	0.00	C
ATOM	14017	CD2	LEU	B	182	10.665	73.929	154.383	0.00	0.00	C
ATOM	14018	HN	LEU	B	182	8.501	76.894	152.259	0.00	0.00	H
ATOM	14019	HCA	LEU	B	182	11.042	76.387	152.887	0.00	0.00	H
ATOM	14020	HCB	LEU	B	182	8.987	74.704	151.440	0.00	0.00	H
ATOM	14021	HCB	LEU	B	182	10.578	74.067	151.742	0.00	0.00	H
ATOM	14022	HCD1	LEU	B	182	8.851	72.285	152.989	0.00	0.00	H
ATOM	14023	HCD1	LEU	B	182	8.159	72.840	154.530	0.00	0.00	H
ATOM	14024	HCD1	LEU	B	182	7.502	73.432	153.009	0.00	0.00	H
ATOM	14025	HCD2	LEU	B	182	11.123	73.017	153.994	0.00	0.00	H
ATOM	14026	HCD2	LEU	B	182	11.409	74.714	154.343	0.00	0.00	H
ATOM	14027	HCD2	LEU	B	182	10.387	73.776	155.425	0.00	0.00	H
ATOM	14028	HCG	LEU	B	182	8.927	75.162	154.047	0.00	0.00	H
ATOM	14029	N	HIS	B	183	10.792	76.555	149.544	0.00	0.00	N
ATOM	14030	CA	HIS	B	183	11.573	76.921	148.383	0.00	0.00	C
ATOM	14031	C	HIS	B	183	12.383	78.153	148.616	0.00	0.00	C
ATOM	14032	O	HIS	B	183	13.620	78.052	148.487	0.00	0.00	O
ATOM	14033	CB	HIS	B	183	10.735	77.083	147.078	0.00	0.00	C
ATOM	14034	CG	HIS	B	183	10.275	75.802	146.507	0.00	0.00	C
ATOM	14035	CD2	HIS	B	183	10.688	75.197	145.325	0.00	0.00	C
ATOM	14036	ND1	HIS	B	183	9.351	74.993	147.032	0.00	0.00	N
ATOM	14037	CE1	HIS	B	183	9.201	73.923	146.241	0.00	0.00	C
ATOM	14038	NE2	HIS	B	183	10.019	74.043	145.183	0.00	0.00	N
ATOM	14039	HN	HIS	B	183	9.864	76.369	149.439	0.00	0.00	H
ATOM	14040	HND1	HIS	B	183	8.876	75.177	147.837	0.00	0.00	H
ATOM	14041	HCA	HIS	B	183	12.270	76.094	148.205	0.00	0.00	H
ATOM	14042	HCB	HIS	B	183	9.866	77.714	147.255	0.00	0.00	H
ATOM	14043	HCB	HIS	B	183	11.345	77.583	146.318	0.00	0.00	H
ATOM	14044	HCD2	HIS	B	183	11.386	75.561	144.673	0.00	0.00	H
ATOM	14045	HCE1	HIS	B	183	8.568	73.138	146.409	0.00	0.00	H
ATOM	14046	N	ARG	B	184	11.849	79.339	148.994	0.00	0.00	N
ATOM	14047	CA	ARG	B	184	12.615	80.544	149.245	0.00	0.00	C
ATOM	14048	C	ARG	B	184	13.755	80.355	150.200	0.00	0.00	C
ATOM	14049	O	ARG	B	184	14.922	80.704	149.877	0.00	0.00	O
ATOM	14050	CB	ARG	B	184	11.701	81.705	149.741	0.00	0.00	C
ATOM	14051	CG	ARG	B	184	10.639	82.234	148.735	0.00	0.00	C
ATOM	14052	CD	ARG	B	184	11.199	82.812	147.404	0.00	0.00	C
ATOM	14053	NE	ARG	B	184	11.219	81.843	146.358	0.00	0.00	N
ATOM	14054	CZ	ARG	B	184	10.177	81.382	145.655	0.00	0.00	C
ATOM	14055	NH1	ARG	B	184	8.921	81.825	145.761	0.00	0.00	N
ATOM	14056	NH2	ARG	B	184	10.456	80.410	144.804	0.00	0.00	N
ATOM	14057	HN	ARG	B	184	10.893	79.355	149.073	0.00	0.00	H
ATOM	14058	HNE	ARG	B	184	12.082	81.475	146.145	0.00	0.00	H
ATOM	14059	HNH1	ARG	B	184	8.717	82.513	146.394	0.00	0.00	H
ATOM	14060	HNH1	ARG	B	184	8.204	81.456	145.243	0.00	0.00	H
ATOM	14061	HNH2	ARG	B	184	11.356	80.071	144.782	0.00	0.00	H
ATOM	14062	HNH2	ARG	B	184	9.771	80.037	144.238	0.00	0.00	H
ATOM	14063	HCA	ARG	B	184	13.050	80.853	148.293	0.00	0.00	H
ATOM	14064	HCB	ARG	B	184	11.178	81.374	150.640	0.00	0.00	H
ATOM	14065	HCB	ARG	B	184	12.328	82.555	150.030	0.00	0.00	H
ATOM	14066	HCD	ARG	B	184	10.622	83.680	147.088	0.00	0.00	H
ATOM	14067	HCD	ARG	B	184	12.220	83.173	147.557	0.00	0.00	H
ATOM	14068	HCG	ARG	B	184	9.912	81.450	148.524	0.00	0.00	H
ATOM	14069	HCG	ARG	B	184	10.093	83.031	149.244	0.00	0.00	H
ATOM	14070	N	ILE	B	185	13.551	79.796	151.419	0.00	0.00	N
ATOM	14071	CA	ILE	B	185	14.622	79.547	152.360	0.00	0.00	C
ATOM	14072	C	ILE	B	185	15.562	78.493	151.859	0.00	0.00	C
ATOM	14073	O	ILE	B	185	16.788	78.680	152.035	0.00	0.00	O
ATOM	14074	CB	ILE	B	185	14.155	79.446	153.859	0.00	0.00	C
ATOM	14075	CG1	ILE	B	185	15.277	79.033	154.866	0.00	0.00	C
ATOM	14076	CG2	ILE	B	185	12.847	78.647	154.096	0.00	0.00	C
ATOM	14077	CD1	ILE	B	185	15.590	77.522	154.943	0.00	0.00	C
ATOM	14078	HN	ILE	B	185	12.650	79.521	151.615	0.00	0.00	H

ATOM	14079	HCA	ILE	B	185	15.221	80.467	152.360	0.00	0.00	H
ATOM	14080	HCB	ILE	B	185	13.899	80.473	154.146	0.00	0.00	H
ATOM	14081	HCD1	ILE	B	185	14.673	76.953	155.009	0.00	0.00	H
ATOM	14082	HCD1	ILE	B	185	16.121	77.168	154.066	0.00	0.00	H
ATOM	14083	HCD1	ILE	B	185	16.198	77.316	155.826	0.00	0.00	H
ATOM	14084	HCG1	ILE	B	185	16.201	79.570	154.636	0.00	0.00	H
ATOM	14085	HCG1	ILE	B	185	14.965	79.348	155.865	0.00	0.00	H
ATOM	14086	HCG2	ILE	B	185	11.990	79.249	153.811	0.00	0.00	H
ATOM	14087	HCG2	ILE	B	185	12.860	77.727	153.515	0.00	0.00	H
ATOM	14088	HCG2	ILE	B	185	12.715	78.397	155.151	0.00	0.00	H
ATOM	14089	N	THR	B	186	15.188	77.381	151.177	0.00	0.00	N
ATOM	14090	CA	THR	B	186	16.084	76.435	150.547	0.00	0.00	C
ATOM	14091	C	THR	B	186	16.938	77.091	149.528	0.00	0.00	C
ATOM	14092	O	THR	B	186	18.163	76.866	149.580	0.00	0.00	O
ATOM	14093	CB	THR	B	186	15.365	75.206	149.910	0.00	0.00	C
ATOM	14094	CG2	THR	B	186	16.329	74.120	149.370	0.00	0.00	C
ATOM	14095	OG1	THR	B	186	14.551	74.574	150.890	0.00	0.00	O
ATOM	14096	HN	THR	B	186	14.259	77.193	151.107	0.00	0.00	H
ATOM	14097	HCA	THR	B	186	16.722	76.037	151.343	0.00	0.00	H
ATOM	14098	HCB	THR	B	186	14.718	75.536	149.091	0.00	0.00	H
ATOM	14099	HCG2	THR	B	186	17.045	73.830	150.139	0.00	0.00	H
ATOM	14100	HCG2	THR	B	186	15.775	73.231	149.069	0.00	0.00	H
ATOM	14101	HCG2	THR	B	186	16.878	74.489	148.502	0.00	0.00	H
ATOM	14102	HOG1	THR	B	186	13.832	75.207	150.998	0.00	0.00	H
ATOM	14103	N	GLU	B	187	16.447	77.934	148.587	0.00	0.00	N
ATOM	14104	CA	GLU	B	187	17.218	78.718	147.655	0.00	0.00	C
ATOM	14105	C	GLU	B	187	18.323	79.419	148.378	0.00	0.00	C
ATOM	14106	O	GLU	B	187	19.507	79.200	148.026	0.00	0.00	O
ATOM	14107	CB	GLU	B	187	16.295	79.704	146.864	0.00	0.00	C
ATOM	14108	CG	GLU	B	187	15.277	79.030	145.883	0.00	0.00	C
ATOM	14109	CD	GLU	B	187	14.082	79.831	145.517	0.00	0.00	C
ATOM	14110	OE1	GLU	B	187	13.919	81.024	145.845	0.00	0.00	O
ATOM	14111	OE2	GLU	B	187	13.132	79.340	144.868	0.00	0.00	O
ATOM	14112	HN	GLU	B	187	15.499	78.013	148.551	0.00	0.00	H
ATOM	14113	HCA	GLU	B	187	17.661	78.030	146.927	0.00	0.00	H
ATOM	14114	HCB	GLU	B	187	15.749	80.315	147.581	0.00	0.00	H
ATOM	14115	HCB	GLU	B	187	16.919	80.388	146.280	0.00	0.00	H
ATOM	14116	HCG	GLU	B	187	15.795	78.770	144.958	0.00	0.00	H
ATOM	14117	HCG	GLU	B	187	14.913	78.100	146.316	0.00	0.00	H
ATOM	14118	N	ILE	B	188	18.070	80.176	149.477	0.00	0.00	N
ATOM	14119	CA	ILE	B	188	19.089	80.763	150.328	0.00	0.00	C
ATOM	14120	C	ILE	B	188	20.026	79.747	150.927	0.00	0.00	C
ATOM	14121	O	ILE	B	188	21.258	79.873	150.734	0.00	0.00	O
ATOM	14122	CB	ILE	B	188	18.431	81.738	151.374	0.00	0.00	C
ATOM	14123	CG1	ILE	B	188	17.763	82.962	150.650	0.00	0.00	C
ATOM	14124	CG2	ILE	B	188	19.448	82.234	152.449	0.00	0.00	C
ATOM	14125	CD1	ILE	B	188	16.725	83.743	151.490	0.00	0.00	C
ATOM	14126	HN	ILE	B	188	17.135	80.322	149.690	0.00	0.00	H
ATOM	14127	HCA	ILE	B	188	19.698	81.400	149.677	0.00	0.00	H
ATOM	14128	HCB	ILE	B	188	17.649	81.184	151.899	0.00	0.00	H
ATOM	14129	HCD1	ILE	B	188	15.921	83.078	151.808	0.00	0.00	H
ATOM	14130	HCD1	ILE	B	188	17.184	84.199	152.367	0.00	0.00	H
ATOM	14131	HCD1	ILE	B	188	16.289	84.541	150.884	0.00	0.00	H
ATOM	14132	HCG1	ILE	B	188	18.539	83.657	150.315	0.00	0.00	H
ATOM	14133	HCG1	ILE	B	188	17.237	82.621	149.755	0.00	0.00	H
ATOM	14134	HCG2	ILE	B	188	19.815	81.400	153.050	0.00	0.00	H
ATOM	14135	HCG2	ILE	B	188	20.301	82.720	151.973	0.00	0.00	H
ATOM	14136	HCG2	ILE	B	188	18.986	82.941	153.138	0.00	0.00	H
ATOM	14137	N	VAL	B	189	19.622	78.697	151.686	0.00	0.00	N
ATOM	14138	CA	VAL	B	189	20.503	77.717	152.301	0.00	0.00	C
ATOM	14139	C	VAL	B	189	21.391	77.048	151.308	0.00	0.00	C
ATOM	14140	O	VAL	B	189	22.594	76.857	151.592	0.00	0.00	O
ATOM	14141	CB	VAL	B	189	19.741	76.652	153.162	0.00	0.00	C
ATOM	14142	CG1	VAL	B	189	20.684	75.565	153.766	0.00	0.00	C
ATOM	14143	CG2	VAL	B	189	18.981	77.304	154.343	0.00	0.00	C
ATOM	14144	HN	VAL	B	189	18.680	78.629	151.822	0.00	0.00	H
ATOM	14145	HCA	VAL	B	189	21.147	78.268	152.994	0.00	0.00	H
ATOM	14146	HCB	VAL	B	189	19.008	76.153	152.519	0.00	0.00	H
ATOM	14147	HCG1	VAL	B	189	21.513	76.028	154.306	0.00	0.00	H
ATOM	14148	HCG1	VAL	B	189	20.142	74.922	154.462	0.00	0.00	H
ATOM	14149	HCG1	VAL	B	189	21.095	74.929	152.980	0.00	0.00	H
ATOM	14150	HCG2	VAL	B	189	18.365	78.137	154.010	0.00	0.00	H
ATOM	14151	HCG2	VAL	B	189	18.345	76.563	154.829	0.00	0.00	H
ATOM	14152	HCG2	VAL	B	189	19.685	77.675	155.078	0.00	0.00	H
ATOM	14153	N	ASP	B	190	20.921	76.628	150.117	0.00	0.00	N
ATOM	14154	CA	ASP	B	190	21.683	76.040	149.057	0.00	0.00	C
ATOM	14155	C	ASP	B	190	22.653	77.026	148.497	0.00	0.00	C
ATOM	14156	O	ASP	B	190	23.862	76.711	148.331	0.00	0.00	O
ATOM	14157	CB	ASP	B	190	20.684	75.463	148.011	0.00	0.00	C
ATOM	14158	CG	ASP	B	190	21.253	74.336	147.261	0.00	0.00	C

ATOM	14159	OD1	ASP	B	190	22.156	74.521	146.420	0.00	0.00	O
ATOM	14160	OD2	ASP	B	190	20.859	73.170	147.494	0.00	0.00	O
ATOM	14161	HN	ASP	B	190	19.993	76.749	149.953	0.00	0.00	H
ATOM	14162	HCA	ASP	B	190	22.231	75.206	149.499	0.00	0.00	H
ATOM	14163	HCB	ASP	B	190	19.792	75.089	148.521	0.00	0.00	H
ATOM	14164	HCB	ASP	B	190	20.358	76.234	147.310	0.00	0.00	H
ATOM	14165	N	ALA	B	191	22.257	78.306	148.263	0.00	0.00	N
ATOM	14166	CA	ALA	B	191	23.142	79.386	147.960	0.00	0.00	C
ATOM	14167	C	ALA	B	191	24.298	79.485	148.893	0.00	0.00	C
ATOM	14168	O	ALA	B	191	25.446	79.608	148.402	0.00	0.00	O
ATOM	14169	CB	ALA	B	191	22.373	80.723	147.800	0.00	0.00	C
ATOM	14170	HN	ALA	B	191	21.322	78.520	148.281	0.00	0.00	H
ATOM	14171	HCA	ALA	B	191	23.529	79.125	146.986	0.00	0.00	H
ATOM	14172	HCB	ALA	B	191	21.968	81.066	148.746	0.00	0.00	H
ATOM	14173	HCB	ALA	B	191	23.028	81.507	147.431	0.00	0.00	H
ATOM	14174	HCB	ALA	B	191	21.555	80.608	147.087	0.00	0.00	H
ATOM	14175	N	ILE	B	192	24.119	79.352	150.229	0.00	0.00	N
ATOM	14176	CA	ILE	B	192	25.193	79.155	151.178	0.00	0.00	C
ATOM	14177	C	ILE	B	192	25.945	77.880	150.934	0.00	0.00	C
ATOM	14178	O	ILE	B	192	27.180	77.938	150.759	0.00	0.00	O
ATOM	14179	CB	ILE	B	192	24.752	79.235	152.684	0.00	0.00	C
ATOM	14180	CG1	ILE	B	192	23.718	80.347	153.038	0.00	0.00	C
ATOM	14181	CG2	ILE	B	192	25.983	79.370	153.622	0.00	0.00	C
ATOM	14182	CD1	ILE	B	192	24.071	81.772	152.565	0.00	0.00	C
ATOM	14183	HN	ILE	B	192	23.203	79.404	150.521	0.00	0.00	H
ATOM	14184	HCA	ILE	B	192	25.891	79.986	151.019	0.00	0.00	H
ATOM	14185	HCB	ILE	B	192	24.270	78.288	152.946	0.00	0.00	H
ATOM	14186	HCD1	ILE	B	192	24.933	82.167	153.104	0.00	0.00	H
ATOM	14187	HCD1	ILE	B	192	24.272	81.800	151.494	0.00	0.00	H
ATOM	14188	HCD1	ILE	B	192	23.217	82.411	152.760	0.00	0.00	H
ATOM	14189	HCG1	ILE	B	192	22.761	80.075	152.608	0.00	0.00	H
ATOM	14190	HCG1	ILE	B	192	23.560	80.372	154.121	0.00	0.00	H
ATOM	14191	HCG2	ILE	B	192	26.736	78.621	153.393	0.00	0.00	H
ATOM	14192	HCG2	ILE	B	192	26.450	80.348	153.514	0.00	0.00	H
ATOM	14193	HCG2	ILE	B	192	25.674	79.231	154.658	0.00	0.00	H
ATOM	14194	N	THR	B	193	25.362	76.657	150.971	0.00	0.00	N
ATOM	14195	CA	THR	B	193	26.042	75.375	150.910	0.00	0.00	C
ATOM	14196	C	THR	B	193	26.958	75.211	149.750	0.00	0.00	C
ATOM	14197	O	THR	B	193	28.079	74.669	149.904	0.00	0.00	O
ATOM	14198	CB	THR	B	193	25.066	74.163	151.099	0.00	0.00	C
ATOM	14199	CG2	THR	B	193	24.590	73.441	149.814	0.00	0.00	C
ATOM	14200	OG1	THR	B	193	25.695	73.168	151.907	0.00	0.00	O
ATOM	14201	HN	THR	B	193	24.422	76.669	151.133	0.00	0.00	H
ATOM	14202	HCA	THR	B	193	26.688	75.377	151.787	0.00	0.00	H
ATOM	14203	HCB	THR	B	193	24.184	74.505	151.650	0.00	0.00	H
ATOM	14204	HCG2	THR	B	193	25.404	72.859	149.377	0.00	0.00	H
ATOM	14205	HCG2	THR	B	193	23.767	72.762	150.045	0.00	0.00	H
ATOM	14206	HCG2	THR	B	193	24.248	74.155	149.068	0.00	0.00	H
ATOM	14207	HOG1	THR	B	193	25.024	72.459	152.016	0.00	0.00	H
ATOM	14208	N	THR	B	194	26.595	75.693	148.541	0.00	0.00	N
ATOM	14209	CA	THR	B	194	27.433	75.742	147.366	0.00	0.00	C
ATOM	14210	C	THR	B	194	28.699	76.511	147.532	0.00	0.00	C
ATOM	14211	O	THR	B	194	29.627	76.334	146.709	0.00	0.00	O
ATOM	14212	CB	THR	B	194	26.637	76.403	146.196	0.00	0.00	C
ATOM	14213	CG2	THR	B	194	25.510	75.510	145.629	0.00	0.00	C
ATOM	14214	OG1	THR	B	194	26.077	77.645	146.635	0.00	0.00	O
ATOM	14215	HN	THR	B	194	25.704	76.043	148.475	0.00	0.00	H
ATOM	14216	HCA	THR	B	194	27.697	74.717	147.089	0.00	0.00	H
ATOM	14217	HCB	THR	B	194	27.311	76.623	145.362	0.00	0.00	H
ATOM	14218	HCG2	THR	B	194	25.935	74.618	145.165	0.00	0.00	H
ATOM	14219	HCG2	THR	B	194	24.824	75.196	146.415	0.00	0.00	H
ATOM	14220	HCG2	THR	B	194	24.944	76.057	144.873	0.00	0.00	H
ATOM	14221	HOG1	THR	B	194	25.336	77.377	147.208	0.00	0.00	H
ATOM	14222	N	THR	B	195	28.813	77.461	148.484	0.00	0.00	N
ATOM	14223	CA	THR	B	195	29.756	78.534	148.544	0.00	0.00	C
ATOM	14224	C	THR	B	195	30.404	78.502	149.887	0.00	0.00	C
ATOM	14225	O	THR	B	195	29.975	79.234	150.812	0.00	0.00	O
ATOM	14226	CB	THR	B	195	28.898	79.814	148.282	0.00	0.00	C
ATOM	14227	CG2	THR	B	195	29.731	81.114	148.287	0.00	0.00	C
ATOM	14228	OG1	THR	B	195	28.223	79.743	147.017	0.00	0.00	O
ATOM	14229	HN	THR	B	195	28.159	77.503	149.178	0.00	0.00	H
ATOM	14230	HCA	THR	B	195	30.525	78.466	147.769	0.00	0.00	H
ATOM	14231	HCB	THR	B	195	28.131	79.905	149.060	0.00	0.00	H
ATOM	14232	HCG2	THR	B	195	30.245	81.244	147.336	0.00	0.00	H
ATOM	14233	HCG2	THR	B	195	29.075	81.963	148.455	0.00	0.00	H
ATOM	14234	HCG2	THR	B	195	30.464	81.116	149.091	0.00	0.00	H
ATOM	14235	HOG1	THR	B	195	27.541	79.041	147.048	0.00	0.00	H
ATOM	14236	N	ALA	B	196	31.403	77.623	150.147	0.00	0.00	N
ATOM	14237	CA	ALA	B	196	31.941	77.354	151.457	0.00	0.00	C
ATOM	14238	C	ALA	B	196	33.426	77.271	151.474	0.00	0.00	C

ATOM	14239	O	ALA	B	196	33.986	76.212	151.843	0.00	0.00	O
ATOM	14240	CB	ALA	B	196	31.236	76.052	151.920	0.00	0.00	C
ATOM	14241	HN	ALA	B	196	31.726	77.092	149.406	0.00	0.00	H
ATOM	14242	HCA	ALA	B	196	31.682	78.141	152.172	0.00	0.00	H
ATOM	14243	HCB	ALA	B	196	30.154	76.191	151.928	0.00	0.00	H
ATOM	14244	HCB	ALA	B	196	31.472	75.222	151.250	0.00	0.00	H
ATOM	14245	HCB	ALA	B	196	31.561	75.791	152.926	0.00	0.00	H
ATOM	14246	N	GLN	B	197	34.195	78.312	151.075	0.00	0.00	N
ATOM	14247	CA	GLN	B	197	35.626	78.285	150.925	0.00	0.00	C
ATOM	14248	C	GLN	B	197	36.337	79.079	151.916	0.00	0.00	C
ATOM	14249	O	GLN	B	197	37.391	78.627	152.346	0.00	0.00	O
ATOM	14250	CB	GLN	B	197	35.948	78.701	149.466	0.00	0.00	C
ATOM	14251	CG	GLN	B	197	35.151	77.871	148.415	0.00	0.00	C
ATOM	14252	CD	GLN	B	197	35.339	76.418	148.525	0.00	0.00	C
ATOM	14253	NE2	GLN	B	197	34.311	75.586	148.714	0.00	0.00	N
ATOM	14254	OE1	GLN	B	197	36.487	75.933	148.444	0.00	0.00	O
ATOM	14255	HN	GLN	B	197	33.770	79.107	150.741	0.00	0.00	H
ATOM	14256	HNE2	GLN	B	197	33.417	75.938	148.806	0.00	0.00	H
ATOM	14257	HNE2	GLN	B	197	34.475	74.634	148.767	0.00	0.00	H
ATOM	14258	HCA	GLN	B	197	35.995	77.258	151.032	0.00	0.00	H
ATOM	14259	HCB	GLN	B	197	35.721	79.762	149.325	0.00	0.00	H
ATOM	14260	HCB	GLN	B	197	37.019	78.573	149.287	0.00	0.00	H
ATOM	14261	HCG	GLN	B	197	34.089	78.120	148.469	0.00	0.00	H
ATOM	14262	HCG	GLN	B	197	35.479	78.148	147.428	0.00	0.00	H
ATOM	14263	N	SER	B	198	35.906	80.250	152.356	0.00	0.00	N
ATOM	14264	CA	SER	B	198	36.416	80.940	153.519	0.00	0.00	C
ATOM	14265	C	SER	B	198	36.465	80.085	154.758	0.00	0.00	C
ATOM	14266	O	SER	B	198	35.430	79.840	155.439	0.00	0.00	O
ATOM	14267	CB	SER	B	198	35.603	82.238	153.725	0.00	0.00	C
ATOM	14268	OG	SER	B	198	34.233	81.895	153.889	0.00	0.00	O
ATOM	14269	HN	SER	B	198	35.226	80.709	151.848	0.00	0.00	H
ATOM	14270	HCA	SER	B	198	37.425	81.277	153.279	0.00	0.00	H
ATOM	14271	HCB	SER	B	198	35.958	82.768	154.613	0.00	0.00	H
ATOM	14272	HCB	SER	B	198	35.713	82.898	152.862	0.00	0.00	H
ATOM	14273	HOG	SER	B	198	34.350	81.137	154.481	0.00	0.00	H
ATOM	14274	N	HSE	B	199	37.673	79.555	155.063	0.00	0.00	N
ATOM	14275	CA	HSE	B	199	38.073	78.624	156.083	0.00	0.00	C
ATOM	14276	C	HSE	B	199	37.020	78.043	156.972	0.00	0.00	C
ATOM	14277	O	HSE	B	199	36.706	76.841	156.792	0.00	0.00	O
ATOM	14278	CB	HSE	B	199	39.349	79.139	156.834	0.00	0.00	C
ATOM	14279	CG	HSE	B	199	39.470	80.591	157.071	0.00	0.00	C
ATOM	14280	CD2	HSE	B	199	40.657	81.278	157.321	0.00	0.00	C
ATOM	14281	ND1	HSE	B	199	38.475	81.489	157.064	0.00	0.00	N
ATOM	14282	CE1	HSE	B	199	39.030	82.693	157.273	0.00	0.00	C
ATOM	14283	NE2	HSE	B	199	40.359	82.579	157.408	0.00	0.00	N
ATOM	14284	HN	HSE	B	199	38.379	79.828	154.476	0.00	0.00	H
ATOM	14285	HNE2	HSE	B	199	40.977	83.303	157.580	0.00	0.00	H
ATOM	14286	HCA	HSE	B	199	38.431	77.777	155.486	0.00	0.00	H
ATOM	14287	HCB	HSE	B	199	39.450	78.654	157.799	0.00	0.00	H
ATOM	14288	HCB	HSE	B	199	40.224	78.846	156.246	0.00	0.00	H
ATOM	14289	HCD2	HSE	B	199	41.589	80.868	157.403	0.00	0.00	H
ATOM	14290	HCE1	HSE	B	199	38.511	83.566	157.321	0.00	0.00	H
ATOM	14291	N	GLN	B	200	36.419	78.746	157.967	0.00	0.00	N
ATOM	14292	CA	GLN	B	200	35.400	78.216	158.855	0.00	0.00	C
ATOM	14293	C	GLN	B	200	34.176	79.031	158.917	0.00	0.00	C
ATOM	14294	O	GLN	B	200	33.482	78.979	159.935	0.00	0.00	O
ATOM	14295	CB	GLN	B	200	36.045	77.933	160.255	0.00	0.00	C
ATOM	14296	CG	GLN	B	200	37.114	76.796	160.310	0.00	0.00	C
ATOM	14297	CD	GLN	B	200	38.498	77.177	159.996	0.00	0.00	C
ATOM	14298	NE2	GLN	B	200	39.117	78.151	160.670	0.00	0.00	N
ATOM	14299	OE1	GLN	B	200	39.166	76.553	159.145	0.00	0.00	O
ATOM	14300	HN	GLN	B	200	36.712	79.665	158.078	0.00	0.00	H
ATOM	14301	HNE2	GLN	B	200	38.645	78.641	161.358	0.00	0.00	H
ATOM	14302	HNE2	GLN	B	200	40.040	78.358	160.467	0.00	0.00	H
ATOM	14303	HCA	GLN	B	200	35.032	77.253	158.488	0.00	0.00	H
ATOM	14304	HCB	GLN	B	200	36.452	78.863	160.661	0.00	0.00	H
ATOM	14305	HCB	GLN	B	200	35.253	77.613	160.938	0.00	0.00	H
ATOM	14306	HCG	GLN	B	200	37.165	76.415	161.329	0.00	0.00	H
ATOM	14307	HCG	GLN	B	200	36.803	75.966	159.669	0.00	0.00	H
ATOM	14308	N	ARG	B	201	33.730	79.748	157.889	0.00	0.00	N
ATOM	14309	CA	ARG	B	201	32.495	80.510	157.927	0.00	0.00	C
ATOM	14310	C	ARG	B	201	31.309	79.681	158.293	0.00	0.00	C
ATOM	14311	O	ARG	B	201	30.998	78.658	157.642	0.00	0.00	O
ATOM	14312	CB	ARG	B	201	32.203	81.354	156.651	0.00	0.00	C
ATOM	14313	CG	ARG	B	201	32.983	82.698	156.608	0.00	0.00	C
ATOM	14314	CD	ARG	B	201	32.461	83.692	155.544	0.00	0.00	C
ATOM	14315	NE	ARG	B	201	33.453	84.704	155.345	0.00	0.00	N
ATOM	14316	CZ	ARG	B	201	33.945	85.129	154.179	0.00	0.00	C
ATOM	14317	NH1	ARG	B	201	33.529	84.721	152.987	0.00	0.00	N
ATOM	14318	NH2	ARG	B	201	34.941	85.996	154.263	0.00	0.00	N

ATOM	14319	HN	ARG	B	201	34.265	79.763	157.086	0.00	0.00	H
ATOM	14320	HNE	ARG	B	201	33.849	85.104	156.121	0.00	0.00	H
ATOM	14321	HNH1	ARG	B	201	32.855	84.030	152.932	0.00	0.00	H
ATOM	14322	HNH1	ARG	B	201	33.924	85.047	152.175	0.00	0.00	H
ATOM	14323	HNH2	ARG	B	201	35.277	86.224	155.121	0.00	0.00	H
ATOM	14324	HNH2	ARG	B	201	35.341	86.360	153.465	0.00	0.00	H
ATOM	14325	HCA	ARG	B	201	32.630	81.227	158.740	0.00	0.00	H
ATOM	14326	HCB	ARG	B	201	32.419	80.758	155.760	0.00	0.00	H
ATOM	14327	HCB	ARG	B	201	31.140	81.607	156.628	0.00	0.00	H
ATOM	14328	HCD	ARG	B	201	32.198	83.161	154.627	0.00	0.00	H
ATOM	14329	HCD	ARG	B	201	31.548	84.162	155.917	0.00	0.00	H
ATOM	14330	HCG	ARG	B	201	32.878	83.207	157.564	0.00	0.00	H
ATOM	14331	HCG	ARG	B	201	34.044	82.481	156.457	0.00	0.00	H
ATOM	14332	N	THR	B	202	30.614	80.048	159.390	0.00	0.00	N
ATOM	14333	CA	THR	B	202	29.550	79.345	160.041	0.00	0.00	C
ATOM	14334	C	THR	B	202	28.345	80.204	160.018	0.00	0.00	C
ATOM	14335	O	THR	B	202	28.446	81.417	160.317	0.00	0.00	O
ATOM	14336	CB	THR	B	202	30.056	78.983	161.466	0.00	0.00	C
ATOM	14337	CG2	THR	B	202	28.963	78.456	162.426	0.00	0.00	C
ATOM	14338	OG1	THR	B	202	31.061	77.975	161.311	0.00	0.00	O
ATOM	14339	HN	THR	B	202	30.886	80.880	159.804	0.00	0.00	H
ATOM	14340	HCA	THR	B	202	29.321	78.411	159.520	0.00	0.00	H
ATOM	14341	HCB	THR	B	202	30.517	79.856	161.940	0.00	0.00	H
ATOM	14342	HCG2	THR	B	202	28.305	79.271	162.734	0.00	0.00	H
ATOM	14343	HCG2	THR	B	202	28.353	77.693	161.947	0.00	0.00	H
ATOM	14344	HCG2	THR	B	202	29.422	78.032	163.322	0.00	0.00	H
ATOM	14345	HOG1	THR	B	202	31.810	78.384	160.830	0.00	0.00	H
ATOM	14346	N	PHE	B	203	27.159	79.691	159.630	0.00	0.00	N
ATOM	14347	CA	PHE	B	203	26.011	80.471	159.259	0.00	0.00	C
ATOM	14348	C	PHE	B	203	24.887	80.247	160.195	0.00	0.00	C
ATOM	14349	O	PHE	B	203	24.386	79.100	160.308	0.00	0.00	O
ATOM	14350	CB	PHE	B	203	25.636	80.150	157.789	0.00	0.00	C
ATOM	14351	CG	PHE	B	203	26.687	80.622	156.849	0.00	0.00	C
ATOM	14352	CD1	PHE	B	203	27.782	79.794	156.506	0.00	0.00	C
ATOM	14353	CD2	PHE	B	203	26.618	81.922	156.299	0.00	0.00	C
ATOM	14354	CE1	PHE	B	203	28.772	80.247	155.614	0.00	0.00	C
ATOM	14355	CE2	PHE	B	203	27.614	82.378	155.419	0.00	0.00	C
ATOM	14356	CZ	PHE	B	203	28.689	81.541	155.070	0.00	0.00	C
ATOM	14357	HN	PHE	B	203	27.108	78.735	159.562	0.00	0.00	H
ATOM	14358	HCA	PHE	B	203	26.246	81.540	159.279	0.00	0.00	H
ATOM	14359	HCB	PHE	B	203	25.478	79.077	157.676	0.00	0.00	H
ATOM	14360	HCB	PHE	B	203	24.685	80.629	157.542	0.00	0.00	H
ATOM	14361	HCD1	PHE	B	203	27.859	78.853	156.899	0.00	0.00	H
ATOM	14362	HCD2	PHE	B	203	25.841	82.545	156.536	0.00	0.00	H
ATOM	14363	HCE1	PHE	B	203	29.549	79.634	155.358	0.00	0.00	H
ATOM	14364	HCE2	PHE	B	203	27.550	83.315	155.029	0.00	0.00	H
ATOM	14365	HCZ	PHE	B	203	29.405	81.870	154.419	0.00	0.00	H
ATOM	14366	N	VAL	B	204	24.419	81.304	160.901	0.00	0.00	N
ATOM	14367	CA	VAL	B	204	23.311	81.285	161.808	0.00	0.00	C
ATOM	14368	C	VAL	B	204	22.162	81.939	161.120	0.00	0.00	C
ATOM	14369	O	VAL	B	204	22.206	83.154	160.792	0.00	0.00	O
ATOM	14370	CB	VAL	B	204	23.673	81.934	163.185	0.00	0.00	C
ATOM	14371	CG1	VAL	B	204	22.605	81.580	164.254	0.00	0.00	C
ATOM	14372	CG2	VAL	B	204	25.078	81.526	163.715	0.00	0.00	C
ATOM	14373	HN	VAL	B	204	24.877	82.139	160.784	0.00	0.00	H
ATOM	14374	HCA	VAL	B	204	23.042	80.248	162.018	0.00	0.00	H
ATOM	14375	HCB	VAL	B	204	23.682	83.019	163.060	0.00	0.00	H
ATOM	14376	HCG1	VAL	B	204	21.611	81.877	163.916	0.00	0.00	H
ATOM	14377	HCG1	VAL	B	204	22.592	80.508	164.455	0.00	0.00	H
ATOM	14378	HCG1	VAL	B	204	22.822	82.103	165.183	0.00	0.00	H
ATOM	14379	HCG2	VAL	B	204	25.153	80.442	163.803	0.00	0.00	H
ATOM	14380	HCG2	VAL	B	204	25.859	81.873	163.035	0.00	0.00	H
ATOM	14381	HCG2	VAL	B	204	25.268	81.974	164.693	0.00	0.00	H
ATOM	14382	N	LEU	B	205	21.092	81.182	160.790	0.00	0.00	N
ATOM	14383	CA	LEU	B	205	19.991	81.608	159.973	0.00	0.00	C
ATOM	14384	C	LEU	B	205	18.764	81.722	160.806	0.00	0.00	C
ATOM	14385	O	LEU	B	205	18.295	80.688	161.349	0.00	0.00	O
ATOM	14386	CB	LEU	B	205	19.860	80.618	158.777	0.00	0.00	C
ATOM	14387	CG	LEU	B	205	21.159	80.411	157.924	0.00	0.00	C
ATOM	14388	CD1	LEU	B	205	20.910	79.383	156.796	0.00	0.00	C
ATOM	14389	CD2	LEU	B	205	21.707	81.720	157.296	0.00	0.00	C
ATOM	14390	HN	LEU	B	205	21.106	80.266	161.082	0.00	0.00	H
ATOM	14391	HCA	LEU	B	205	20.180	82.594	159.540	0.00	0.00	H
ATOM	14392	HCB	LEU	B	205	19.553	79.647	159.173	0.00	0.00	H
ATOM	14393	HCB	LEU	B	205	19.056	80.965	158.123	0.00	0.00	H
ATOM	14394	HCD1	LEU	B	205	20.163	79.766	156.098	0.00	0.00	H
ATOM	14395	HCD1	LEU	B	205	21.832	79.178	156.247	0.00	0.00	H
ATOM	14396	HCD1	LEU	B	205	20.555	78.442	157.215	0.00	0.00	H
ATOM	14397	HCD2	LEU	B	205	22.079	82.388	158.073	0.00	0.00	H
ATOM	14398	HCD2	LEU	B	205	22.540	81.512	156.621	0.00	0.00	H

ATOM	14399	HCD2	LEU	B	205	20.925	82.224	156.726	0.00	0.00		H
ATOM	14400	HCG	LEU	B	205	21.940	79.993	158.569	0.00	0.00		H
ATOM	14401	N	GLU	B	206	18.186	82.939	160.995	0.00	0.00		N
ATOM	14402	CA	GLU	B	206	17.013	83.193	161.791	0.00	0.00		C
ATOM	14403	C	GLU	B	206	15.801	83.211	160.928	0.00	0.00		C
ATOM	14404	O	GLU	B	206	15.676	84.103	160.046	0.00	0.00		O
ATOM	14405	CB	GLU	B	206	17.183	84.478	162.658	0.00	0.00		C
ATOM	14406	CG	GLU	B	206	16.344	84.473	163.976	0.00	0.00		C
ATOM	14407	CD	GLU	B	206	16.885	85.379	165.005	0.00	0.00		C
ATOM	14408	OE1	GLU	B	206	16.895	86.616	164.836	0.00	0.00		O
ATOM	14409	OE2	GLU	B	206	17.402	84.924	166.051	0.00	0.00		O
ATOM	14410	HN	GLU	B	206	18.607	83.695	160.581	0.00	0.00		H
ATOM	14411	HCA	GLU	B	206	16.920	82.368	162.494	0.00	0.00		H
ATOM	14412	HCB	GLU	B	206	18.241	84.582	162.906	0.00	0.00		H
ATOM	14413	HCB	GLU	B	206	16.917	85.364	162.080	0.00	0.00		H
ATOM	14414	HCG	GLU	B	206	15.314	84.763	163.760	0.00	0.00		H
ATOM	14415	HCG	GLU	B	206	16.316	83.469	164.403	0.00	0.00		H
ATOM	14416	N	VAL	B	207	14.885	82.224	161.093	0.00	0.00		N
ATOM	14417	CA	VAL	B	207	13.765	81.942	160.232	0.00	0.00		C
ATOM	14418	C	VAL	B	207	12.447	82.194	160.882	0.00	0.00		C
ATOM	14419	O	VAL	B	207	12.310	82.122	162.128	0.00	0.00		O
ATOM	14420	CB	VAL	B	207	13.852	80.491	159.635	0.00	0.00		C
ATOM	14421	CG1	VAL	B	207	15.153	80.265	158.819	0.00	0.00		C
ATOM	14422	CG2	VAL	B	207	13.685	79.347	160.670	0.00	0.00		C
ATOM	14423	HN	VAL	B	207	15.031	81.645	161.845	0.00	0.00		H
ATOM	14424	HCA	VAL	B	207	13.807	82.625	159.380	0.00	0.00		H
ATOM	14425	HCB	VAL	B	207	13.024	80.380	158.929	0.00	0.00		H
ATOM	14426	HCG1	VAL	B	207	16.036	80.359	159.453	0.00	0.00		H
ATOM	14427	HCG1	VAL	B	207	15.157	79.271	158.368	0.00	0.00		H
ATOM	14428	HCG1	VAL	B	207	15.216	80.999	158.017	0.00	0.00		H
ATOM	14429	HCG2	VAL	B	207	12.736	79.442	161.200	0.00	0.00		H
ATOM	14430	HCG2	VAL	B	207	13.682	78.381	160.163	0.00	0.00		H
ATOM	14431	HCG2	VAL	B	207	14.501	79.352	161.390	0.00	0.00		H
ATOM	14432	N	MET	B	208	11.389	82.471	160.084	0.00	0.00		N
ATOM	14433	CA	MET	B	208	10.025	82.663	160.493	0.00	0.00		C
ATOM	14434	C	MET	B	208	9.477	81.434	161.137	0.00	0.00		C
ATOM	14435	O	MET	B	208	9.665	80.315	160.602	0.00	0.00		O
ATOM	14436	CB	MET	B	208	9.195	83.151	159.269	0.00	0.00		C
ATOM	14437	CG	MET	B	208	7.742	83.612	159.611	0.00	0.00		C
ATOM	14438	SD	MET	B	208	7.264	85.167	158.799	0.00	0.00		S
ATOM	14439	CE	MET	B	208	8.070	86.288	159.965	0.00	0.00		C
ATOM	14440	HN	MET	B	208	11.583	82.537	159.153	0.00	0.00		H
ATOM	14441	HCA	MET	B	208	10.028	83.479	161.219	0.00	0.00		H
ATOM	14442	HCB	MET	B	208	9.739	83.979	158.806	0.00	0.00		H
ATOM	14443	HCB	MET	B	208	9.153	82.355	158.521	0.00	0.00		H
ATOM	14444	HCE	MET	B	208	9.126	86.042	160.075	0.00	0.00		H
ATOM	14445	HCE	MET	B	208	7.984	87.308	159.603	0.00	0.00		H
ATOM	14446	HCE	MET	B	208	7.587	86.221	160.941	0.00	0.00		H
ATOM	14447	HCG	MET	B	208	7.044	82.837	159.290	0.00	0.00		H
ATOM	14448	HCG	MET	B	208	7.600	83.722	160.688	0.00	0.00		H
ATOM	14449	N	GLY	B	209	8.856	81.521	162.334	0.00	0.00		N
ATOM	14450	CA	GLY	B	209	8.501	80.406	163.162	0.00	0.00		C
ATOM	14451	C	GLY	B	209	8.147	80.871	164.516	0.00	0.00		C
ATOM	14452	O	GLY	B	209	8.966	80.716	165.458	0.00	0.00		O
ATOM	14453	HN	GLY	B	209	8.655	82.406	162.651	0.00	0.00		H
ATOM	14454	HCA	GLY	B	209	7.661	79.860	162.727	0.00	0.00		H
ATOM	14455	HCA	GLY	B	209	9.348	79.717	163.229	0.00	0.00		H
ATOM	14456	N	ARG	B	210	6.968	81.511	164.704	0.00	0.00		N
ATOM	14457	CA	ARG	B	210	6.531	82.104	165.942	0.00	0.00		C
ATOM	14458	C	ARG	B	210	6.163	81.086	166.966	0.00	0.00		C
ATOM	14459	O	ARG	B	210	6.680	81.135	168.107	0.00	0.00		O
ATOM	14460	CB	ARG	B	210	5.431	83.192	165.725	0.00	0.00		C
ATOM	14461	CG	ARG	B	210	4.114	82.784	164.988	0.00	0.00		C
ATOM	14462	CD	ARG	B	210	4.072	83.118	163.476	0.00	0.00		C
ATOM	14463	NE	ARG	B	210	4.011	84.529	163.269	0.00	0.00		N
ATOM	14464	CZ	ARG	B	210	3.920	85.127	162.080	0.00	0.00		C
ATOM	14465	NH1	ARG	B	210	3.862	84.489	160.921	0.00	0.00		N
ATOM	14466	NH2	ARG	B	210	3.873	86.448	162.042	0.00	0.00		N
ATOM	14467	HN	ARG	B	210	6.402	81.582	163.919	0.00	0.00		H
ATOM	14468	HNE	ARG	B	210	4.044	85.103	164.045	0.00	0.00		H
ATOM	14469	HNH1	ARG	B	210	3.887	83.531	160.887	0.00	0.00		H
ATOM	14470	HNH1	ARG	B	210	3.792	84.962	160.114	0.00	0.00		H
ATOM	14471	HNH2	ARG	B	210	3.912	86.955	162.863	0.00	0.00		H
ATOM	14472	HNH2	ARG	B	210	3.799	86.900	161.197	0.00	0.00		H
ATOM	14473	HCA	ARG	B	210	7.386	82.658	166.347	0.00	0.00		H
ATOM	14474	HCB	ARG	B	210	5.156	83.577	166.712	0.00	0.00		H
ATOM	14475	HCB	ARG	B	210	5.890	84.032	165.194	0.00	0.00		H
ATOM	14476	HCD	ARG	B	210	4.958	82.714	162.984	0.00	0.00		H
ATOM	14477	HCD	ARG	B	210	3.184	82.648	163.040	0.00	0.00		H
ATOM	14478	HCG	ARG	B	210	3.925	81.719	165.104	0.00	0.00		H

ATOM	14479	HCG	ARG	B	210	3.270	83.294	165.463	0.00	0.00	
ATOM	14480	N	HSE	B	211	5.290	80.099	166.669	0.00	0.00	
ATOM	14481	CA	HSE	B	211	4.912	78.996	167.514	0.00	0.00	
ATOM	14482	C	HSE	B	211	5.094	77.699	166.809	0.00	0.00	
ATOM	14483	O	HSE	B	211	4.718	76.644	167.377	0.00	0.00	
ATOM	14484	CB	HSE	B	211	3.442	79.205	167.985	0.00	0.00	
ATOM	14485	CG	HSE	B	211	3.290	80.415	168.815	0.00	0.00	
ATOM	14486	CD2	HSE	B	211	3.460	80.515	170.192	0.00	0.00	
ATOM	14487	ND1	HSE	B	211	2.979	81.637	168.351	0.00	0.00	
ATOM	14488	CE1	HSE	B	211	2.958	82.471	169.403	0.00	0.00	
ATOM	14489	NE2	HSE	B	211	3.248	81.793	170.522	0.00	0.00	
ATOM	14490	HN	HSE	B	211	4.885	80.139	165.791	0.00	0.00	
ATOM	14491	HNE2	HSE	B	211	3.296	82.170	171.414	0.00	0.00	
ATOM	14492	HCA	HSE	B	211	5.551	78.944	168.400	0.00	0.00	
ATOM	14493	HCB	HSE	B	211	2.781	79.289	167.119	0.00	0.00	
ATOM	14494	HCB	HSE	B	211	3.106	78.347	168.574	0.00	0.00	
ATOM	14495	HCD2	HSE	B	211	3.702	79.757	170.832	0.00	0.00	
ATOM	14496	HCE1	HSE	B	211	2.753	83.471	169.356	0.00	0.00	
ATOM	14497	N	CYS	B	212	5.652	77.635	165.573	0.00	0.00	
ATOM	14498	CA	CYS	B	212	5.831	76.441	164.802	0.00	0.00	
ATOM	14499	C	CYS	B	212	7.243	76.226	164.419	0.00	0.00	
ATOM	14500	O	CYS	B	212	7.869	77.111	163.789	0.00	0.00	
ATOM	14501	CB	CYS	B	212	4.944	76.463	163.538	0.00	0.00	
ATOM	14502	SG	CYS	B	212	4.813	74.804	162.836	0.00	0.00	
ATOM	14503	HN	CYS	B	212	5.959	78.465	165.179	0.00	0.00	
ATOM	14504	HCA	CYS	B	212	5.504	75.583	165.386	0.00	0.00	
ATOM	14505	HCB	CYS	B	212	3.945	76.807	163.797	0.00	0.00	
ATOM	14506	HCB	CYS	B	212	5.356	77.135	162.784	0.00	0.00	
ATOM	14507	HSG	CYS	B	212	4.244	74.299	163.961	0.00	0.00	
ATOM	14508	N	GLY	B	213	7.807	75.034	164.697	0.00	0.00	
ATOM	14509	CA	GLY	B	213	9.072	74.592	164.217	0.00	0.00	
ATOM	14510	C	GLY	B	213	9.073	74.002	162.863	0.00	0.00	
ATOM	14511	O	GLY	B	213	10.189	73.685	162.399	0.00	0.00	
ATOM	14512	HN	GLY	B	213	7.305	74.451	165.274	0.00	0.00	
ATOM	14513	HCA	GLY	B	213	9.792	75.414	164.247	0.00	0.00	
ATOM	14514	HCA	GLY	B	213	9.418	73.825	164.907	0.00	0.00	
ATOM	14515	N	TYR	B	214	7.965	73.786	162.112	0.00	0.00	
ATOM	14516	CA	TYR	B	214	7.949	73.088	160.845	0.00	0.00	
ATOM	14517	C	TYR	B	214	8.849	73.740	159.852	0.00	0.00	
ATOM	14518	O	TYR	B	214	9.796	73.085	159.351	0.00	0.00	
ATOM	14519	CB	TYR	B	214	6.477	73.005	160.355	0.00	0.00	
ATOM	14520	CG	TYR	B	214	6.204	72.071	159.230	0.00	0.00	
ATOM	14521	CD1	TYR	B	214	6.090	70.682	159.475	0.00	0.00	
ATOM	14522	CD2	TYR	B	214	5.962	72.550	157.921	0.00	0.00	
ATOM	14523	CE1	TYR	B	214	5.659	69.808	158.460	0.00	0.00	
ATOM	14524	CE2	TYR	B	214	5.518	71.677	156.907	0.00	0.00	
ATOM	14525	CZ	TYR	B	214	5.342	70.309	157.185	0.00	0.00	
ATOM	14526	OH	TYR	B	214	4.854	69.465	156.249	0.00	0.00	
ATOM	14527	HN	TYR	B	214	7.117	74.097	162.457	0.00	0.00	
ATOM	14528	HCA	TYR	B	214	8.299	72.066	161.027	0.00	0.00	
ATOM	14529	HCB	TYR	B	214	5.847	72.680	161.187	0.00	0.00	
ATOM	14530	HCB	TYR	B	214	6.142	74.010	160.095	0.00	0.00	
ATOM	14531	HCD1	TYR	B	214	6.295	70.302	160.400	0.00	0.00	
ATOM	14532	HCD2	TYR	B	214	6.086	73.542	157.705	0.00	0.00	
ATOM	14533	HCE1	TYR	B	214	5.559	68.809	158.654	0.00	0.00	
ATOM	14534	HCE2	TYR	B	214	5.319	72.038	155.972	0.00	0.00	
ATOM	14535	HOH	TYR	B	214	4.476	69.798	155.422	0.00	0.00	
ATOM	14536	N	LEU	B	215	8.693	75.060	159.588	0.00	0.00	
ATOM	14537	CA	LEU	B	215	9.539	75.880	158.762	0.00	0.00	
ATOM	14538	C	LEU	B	215	10.941	76.038	159.270	0.00	0.00	
ATOM	14539	O	LEU	B	215	11.720	76.788	158.640	0.00	0.00	
ATOM	14540	CB	LEU	B	215	8.777	77.231	158.534	0.00	0.00	
ATOM	14541	CG	LEU	B	215	9.341	78.226	157.461	0.00	0.00	
ATOM	14542	CD1	LEU	B	215	9.463	77.595	156.046	0.00	0.00	
ATOM	14543	CD2	LEU	B	215	8.476	79.512	157.388	0.00	0.00	
ATOM	14544	HN	LEU	B	215	7.930	75.494	160.001	0.00	0.00	
ATOM	14545	HCA	LEU	B	215	9.614	75.374	157.797	0.00	0.00	
ATOM	14546	HCB	LEU	B	215	7.746	76.999	158.245	0.00	0.00	
ATOM	14547	HCB	LEU	B	215	8.730	77.753	159.495	0.00	0.00	
ATOM	14548	HCD1	LEU	B	215	8.503	77.180	155.729	0.00	0.00	
ATOM	14549	HCD1	LEU	B	215	9.776	78.341	155.315	0.00	0.00	
ATOM	14550	HCD1	LEU	B	215	10.210	76.801	156.039	0.00	0.00	
ATOM	14551	HCD2	LEU	B	215	8.326	79.939	158.380	0.00	0.00	
ATOM	14552	HCD2	LEU	B	215	8.945	80.267	156.759	0.00	0.00	
ATOM	14553	HCD2	LEU	B	215	7.505	79.293	156.963	0.00	0.00	
ATOM	14554	HCG	LEU	B	215	10.331	78.557	157.775	0.00	0.00	
ATOM	14555	N	ALA	B	216	11.449	75.344	160.323	0.00	0.00	
ATOM	14556	CA	ALA	B	216	12.841	75.231	160.677	0.00	0.00	
ATOM	14557	C	ALA	B	216	13.279	73.815	160.521	0.00	0.00	
ATOM	14558	O	ALA	B	216	14.278	73.522	159.825	0.00	0.00	

ATOM	14559	CB	ALA	B	216	13.006	75.748	162.125	0.00	0.00	C
ATOM	14560	HN	ALA	B	216	10.861	74.833	160.884	0.00	0.00	H
ATOM	14561	HCA	ALA	B	216	13.479	75.846	160.037	0.00	0.00	H
ATOM	14562	HC	ALA	B	216	12.265	75.300	162.781	0.00	0.00	H
ATOM	14563	HC	ALA	B	216	13.998	75.513	162.514	0.00	0.00	H
ATOM	14564	HC	ALA	B	216	12.871	76.830	162.148	0.00	0.00	H
ATOM	14565	N	LEU	B	217	12.569	72.826	161.104	0.00	0.00	N
ATOM	14566	CA	LEU	B	217	12.837	71.419	161.065	0.00	0.00	C
ATOM	14567	C	LEU	B	217	12.874	70.873	159.685	0.00	0.00	C
ATOM	14568	O	LEU	B	217	13.862	70.191	159.319	0.00	0.00	O
ATOM	14569	CB	LEU	B	217	11.754	70.712	161.932	0.00	0.00	C
ATOM	14570	CG	LEU	B	217	11.722	69.153	161.899	0.00	0.00	C
ATOM	14571	CD1	LEU	B	217	13.104	68.510	162.182	0.00	0.00	C
ATOM	14572	CD2	LEU	B	217	10.659	68.636	162.905	0.00	0.00	C
ATOM	14573	HN	LEU	B	217	11.786	73.104	161.569	0.00	0.00	H
ATOM	14574	HCA	LEU	B	217	13.810	71.256	161.540	0.00	0.00	H
ATOM	14575	HC	LEU	B	217	11.901	71.030	162.966	0.00	0.00	H
ATOM	14576	HC	LEU	B	217	10.767	71.069	161.619	0.00	0.00	H
ATOM	14577	HCD1	LEU	B	217	13.476	68.817	163.157	0.00	0.00	H
ATOM	14578	HCD1	LEU	B	217	13.025	67.427	162.147	0.00	0.00	H
ATOM	14579	HCD1	LEU	B	217	13.843	68.790	161.435	0.00	0.00	H
ATOM	14580	HCD2	LEU	B	217	9.671	69.029	162.654	0.00	0.00	H
ATOM	14581	HCD2	LEU	B	217	10.603	67.550	162.876	0.00	0.00	H
ATOM	14582	HCD2	LEU	B	217	10.907	68.939	163.924	0.00	0.00	H
ATOM	14583	HCG	LEU	B	217	11.407	68.835	160.899	0.00	0.00	H
ATOM	14584	N	VAL	B	218	11.864	71.104	158.818	0.00	0.00	N
ATOM	14585	CA	VAL	B	218	11.794	70.548	157.494	0.00	0.00	C
ATOM	14586	C	VAL	B	218	12.938	71.051	156.671	0.00	0.00	C
ATOM	14587	O	VAL	B	218	13.539	70.254	155.910	0.00	0.00	O
ATOM	14588	CB	VAL	B	218	10.368	70.817	156.909	0.00	0.00	C
ATOM	14589	CG1	VAL	B	218	10.195	70.298	155.458	0.00	0.00	C
ATOM	14590	CG2	VAL	B	218	9.253	70.169	157.782	0.00	0.00	C
ATOM	14591	HN	VAL	B	218	11.170	71.717	159.072	0.00	0.00	H
ATOM	14592	HCA	VAL	B	218	11.901	69.461	157.581	0.00	0.00	H
ATOM	14593	HC	VAL	B	218	10.198	71.898	156.898	0.00	0.00	H
ATOM	14594	HCG1	VAL	B	218	10.934	70.745	154.795	0.00	0.00	H
ATOM	14595	HCG1	VAL	B	218	10.303	69.214	155.430	0.00	0.00	H
ATOM	14596	HCG1	VAL	B	218	9.206	70.551	155.072	0.00	0.00	H
ATOM	14597	HCG2	VAL	B	218	9.364	69.082	157.812	0.00	0.00	H
ATOM	14598	HCG2	VAL	B	218	9.277	70.543	158.805	0.00	0.00	H
ATOM	14599	HCG2	VAL	B	218	8.275	70.404	157.365	0.00	0.00	H
ATOM	14600	N	THR	B	219	13.419	72.306	156.862	0.00	0.00	N
ATOM	14601	CA	THR	B	219	14.602	72.877	156.265	0.00	0.00	C
ATOM	14602	C	THR	B	219	15.811	72.145	156.715	0.00	0.00	C
ATOM	14603	O	THR	B	219	16.590	71.626	155.879	0.00	0.00	O
ATOM	14604	CB	THR	B	219	14.809	74.410	156.537	0.00	0.00	C
ATOM	14605	CG2	THR	B	219	13.514	75.216	156.757	0.00	0.00	C
ATOM	14606	OG1	THR	B	219	15.636	74.716	157.661	0.00	0.00	O
ATOM	14607	HN	THR	B	219	12.955	72.839	157.521	0.00	0.00	H
ATOM	14608	HCA	THR	B	219	14.491	72.759	155.182	0.00	0.00	H
ATOM	14609	HC	THR	B	219	15.333	74.811	155.666	0.00	0.00	H
ATOM	14610	HCG2	THR	B	219	12.922	75.225	155.852	0.00	0.00	H
ATOM	14611	HCG2	THR	B	219	12.926	74.787	157.564	0.00	0.00	H
ATOM	14612	HCG2	THR	B	219	13.739	76.249	157.026	0.00	0.00	H
ATOM	14613	HOG1	THR	B	219	15.723	75.693	157.670	0.00	0.00	H
ATOM	14614	N	SER	B	220	16.049	72.048	158.044	0.00	0.00	N
ATOM	14615	CA	SER	B	220	17.166	71.398	158.661	0.00	0.00	C
ATOM	14616	C	SER	B	220	17.361	70.010	158.196	0.00	0.00	C
ATOM	14617	O	SER	B	220	18.513	69.618	157.901	0.00	0.00	O
ATOM	14618	CB	SER	B	220	16.999	71.386	160.193	0.00	0.00	C
ATOM	14619	OG	SER	B	220	16.875	72.710	160.699	0.00	0.00	O
ATOM	14620	HN	SER	B	220	15.437	72.513	158.617	0.00	0.00	H
ATOM	14621	HCA	SER	B	220	18.054	71.987	158.423	0.00	0.00	H
ATOM	14622	HC	SER	B	220	16.124	70.808	160.495	0.00	0.00	H
ATOM	14623	HC	SER	B	220	17.878	70.921	160.638	0.00	0.00	H
ATOM	14624	HOG	SER	B	220	16.012	73.017	160.390	0.00	0.00	H
ATOM	14625	N	LEU	B	221	16.277	69.211	158.084	0.00	0.00	N
ATOM	14626	CA	LEU	B	221	16.243	67.930	157.455	0.00	0.00	C
ATOM	14627	C	LEU	B	221	16.628	68.034	156.019	0.00	0.00	C
ATOM	14628	O	LEU	B	221	17.699	67.490	155.653	0.00	0.00	O
ATOM	14629	CB	LEU	B	221	14.828	67.326	157.705	0.00	0.00	C
ATOM	14630	CG	LEU	B	221	14.596	65.869	157.203	0.00	0.00	C
ATOM	14631	CD1	LEU	B	221	15.534	64.852	157.900	0.00	0.00	C
ATOM	14632	CD2	LEU	B	221	13.123	65.440	157.442	0.00	0.00	C
ATOM	14633	HN	LEU	B	221	15.458	69.552	158.445	0.00	0.00	H
ATOM	14634	HCA	LEU	B	221	16.972	67.299	157.964	0.00	0.00	H
ATOM	14635	HC	LEU	B	221	14.627	67.350	158.781	0.00	0.00	H
ATOM	14636	HC	LEU	B	221	14.090	67.979	157.235	0.00	0.00	H
ATOM	14637	HCD1	LEU	B	221	16.572	65.013	157.606	0.00	0.00	H
ATOM	14638	HCD1	LEU	B	221	15.453	64.931	158.983	0.00	0.00	H



ATOM	14639	HCD1	LEU	B	221	15.259	63.839	157.617	0.00	0.00	H
ATOM	14640	HCD2	LEU	B	221	12.424	66.160	157.017	0.00	0.00	H
ATOM	14641	HCD2	LEU	B	221	12.927	64.469	156.980	0.00	0.00	H
ATOM	14642	HCD2	LEU	B	221	12.920	65.361	158.511	0.00	0.00	H
ATOM	14643	HCG	LEU	B	221	14.786	65.831	156.125	0.00	0.00	H
ATOM	14644	N	SER	B	222	15.894	68.756	155.133	0.00	0.00	N
ATOM	14645	CA	SER	B	222	16.139	68.855	153.715	0.00	0.00	C
ATOM	14646	C	SER	B	222	17.556	69.130	153.362	0.00	0.00	C
ATOM	14647	O	SER	B	222	18.146	68.429	152.507	0.00	0.00	O
ATOM	14648	CB	SER	B	222	15.207	69.926	153.074	0.00	0.00	C
ATOM	14649	OG	SER	B	222	15.690	71.265	153.188	0.00	0.00	O
ATOM	14650	HN	SER	B	222	15.123	69.222	155.459	0.00	0.00	H
ATOM	14651	HCA	SER	B	222	15.857	67.887	153.288	0.00	0.00	H
ATOM	14652	HCN	SER	B	222	15.093	69.720	152.015	0.00	0.00	H
ATOM	14653	HCN	SER	B	222	14.209	69.877	153.504	0.00	0.00	H
ATOM	14654	HOG	SER	B	222	15.943	71.382	154.113	0.00	0.00	H
ATOM	14655	N	CYS	B	223	18.209	70.121	154.004	0.00	0.00	N
ATOM	14656	CA	CYS	B	223	19.552	70.552	153.752	0.00	0.00	C
ATOM	14657	C	CYS	B	223	20.560	69.935	154.659	0.00	0.00	C
ATOM	14658	O	CYS	B	223	21.749	70.317	154.535	0.00	0.00	O
ATOM	14659	CB	CYS	B	223	19.545	72.102	153.838	0.00	0.00	C
ATOM	14660	SG	CYS	B	223	18.538	72.864	152.543	0.00	0.00	S
ATOM	14661	HN	CYS	B	223	17.707	70.597	154.667	0.00	0.00	H
ATOM	14662	HCA	CYS	B	223	19.855	70.287	152.734	0.00	0.00	H
ATOM	14663	HCN	CYS	B	223	19.175	72.429	154.813	0.00	0.00	H
ATOM	14664	HCN	CYS	B	223	20.560	72.485	153.715	0.00	0.00	H
ATOM	14665	HSG	CYS	B	223	17.410	72.210	152.893	0.00	0.00	H
ATOM	14666	N	GLY	B	224	20.271	68.961	155.563	0.00	0.00	N
ATOM	14667	CA	GLY	B	224	21.228	68.363	156.460	0.00	0.00	C
ATOM	14668	C	GLY	B	224	21.999	69.306	157.308	0.00	0.00	C
ATOM	14669	O	GLY	B	224	23.250	69.318	157.238	0.00	0.00	O
ATOM	14670	HN	GLY	B	224	19.381	68.592	155.577	0.00	0.00	H
ATOM	14671	HCA	GLY	B	224	20.688	67.688	157.125	0.00	0.00	H
ATOM	14672	HCA	GLY	B	224	21.918	67.756	155.868	0.00	0.00	H
ATOM	14673	N	ALA	B	225	21.348	70.139	158.150	0.00	0.00	N
ATOM	14674	CA	ALA	B	225	21.972	71.119	159.011	0.00	0.00	C
ATOM	14675	C	ALA	B	225	22.735	70.565	160.170	0.00	0.00	C
ATOM	14676	O	ALA	B	225	22.698	69.337	160.417	0.00	0.00	O
ATOM	14677	CB	ALA	B	225	20.869	72.096	159.486	0.00	0.00	C
ATOM	14678	HN	ALA	B	225	20.396	70.042	158.144	0.00	0.00	H
ATOM	14679	HCA	ALA	B	225	22.683	71.689	158.407	0.00	0.00	H
ATOM	14680	HCN	ALA	B	225	20.121	71.564	160.073	0.00	0.00	H
ATOM	14681	HCN	ALA	B	225	21.289	72.888	160.106	0.00	0.00	H
ATOM	14682	HCN	ALA	B	225	20.388	72.563	158.625	0.00	0.00	H
ATOM	14683	N	ASP	B	226	23.438	71.377	160.998	0.00	0.00	N
ATOM	14684	CA	ASP	B	226	24.260	70.971	162.108	0.00	0.00	C
ATOM	14685	C	ASP	B	226	23.498	71.066	163.381	0.00	0.00	C
ATOM	14686	O	ASP	B	226	23.608	70.143	164.228	0.00	0.00	O
ATOM	14687	CB	ASP	B	226	25.531	71.866	162.177	0.00	0.00	C
ATOM	14688	CG	ASP	B	226	26.389	71.761	160.987	0.00	0.00	C
ATOM	14689	OD1	ASP	B	226	25.967	72.093	159.858	0.00	0.00	O
ATOM	14690	OD2	ASP	B	226	27.577	71.394	161.095	0.00	0.00	O
ATOM	14691	HN	ASP	B	226	23.404	72.325	160.857	0.00	0.00	H
ATOM	14692	HCA	ASP	B	226	24.596	69.935	161.978	0.00	0.00	H
ATOM	14693	HCN	ASP	B	226	25.256	72.915	162.296	0.00	0.00	H
ATOM	14694	HCN	ASP	B	226	26.119	71.582	163.054	0.00	0.00	H
ATOM	14695	N	TRP	B	227	22.726	72.155	163.629	0.00	0.00	N
ATOM	14696	CA	TRP	B	227	21.923	72.346	164.812	0.00	0.00	C
ATOM	14697	C	TRP	B	227	20.661	73.100	164.547	0.00	0.00	C
ATOM	14698	O	TRP	B	227	20.603	73.983	163.655	0.00	0.00	O
ATOM	14699	CB	TRP	B	227	22.808	72.992	165.916	0.00	0.00	C
ATOM	14700	CG	TRP	B	227	22.154	73.052	167.244	0.00	0.00	C
ATOM	14701	CD1	TRP	B	227	21.150	73.946	167.619	0.00	0.00	C
ATOM	14702	CD2	TRP	B	227	22.397	72.272	168.376	0.00	0.00	C
ATOM	14703	CE2	TRP	B	227	21.533	72.721	169.375	0.00	0.00	C
ATOM	14704	CE3	TRP	B	227	23.300	71.220	168.627	0.00	0.00	C
ATOM	14705	NE1	TRP	B	227	20.785	73.716	168.890	0.00	0.00	N
ATOM	14706	CZ2	TRP	B	227	21.535	72.154	170.656	0.00	0.00	C
ATOM	14707	CZ3	TRP	B	227	23.324	70.650	169.919	0.00	0.00	C
ATOM	14708	CH2	TRP	B	227	22.450	71.117	170.928	0.00	0.00	C
ATOM	14709	HN	TRP	B	227	22.747	72.853	162.956	0.00	0.00	H
ATOM	14710	HNE1	TRP	B	227	20.096	74.197	169.376	0.00	0.00	H
ATOM	14711	HCA	TRP	B	227	21.617	71.357	165.176	0.00	0.00	H
ATOM	14712	HCN	TRP	B	227	23.729	72.412	166.006	0.00	0.00	H
ATOM	14713	HCN	TRP	B	227	23.101	74.000	165.618	0.00	0.00	H
ATOM	14714	HCD1	TRP	B	227	20.747	74.663	167.016	0.00	0.00	H
ATOM	14715	HCE3	TRP	B	227	23.929	70.879	167.898	0.00	0.00	H
ATOM	14716	HCH2	TRP	B	227	22.476	70.704	171.861	0.00	0.00	H
ATOM	14717	HCH2	TRP	B	227	20.889	72.492	171.369	0.00	0.00	H
ATOM	14718	HCZ3	TRP	B	227	23.980	69.894	170.123	0.00	0.00	H

ATOM	14719	N	VAL	B	228	19.569	72.811	165.298	0.00	0.00	N
ATOM	14720	CA	VAL	B	228	18.241	73.340	165.133	0.00	0.00	C
ATOM	14721	C	VAL	B	228	17.683	73.794	166.434	0.00	0.00	C
ATOM	14722	O	VAL	B	228	17.711	73.001	167.407	0.00	0.00	O
ATOM	14723	CB	VAL	B	228	17.277	72.264	164.521	0.00	0.00	C
ATOM	14724	CG1	VAL	B	228	15.993	72.919	163.940	0.00	0.00	C
ATOM	14725	CG2	VAL	B	228	17.964	71.409	163.434	0.00	0.00	C
ATOM	14726	HN	VAL	B	228	19.685	72.148	165.996	0.00	0.00	H
ATOM	14727	HCA	VAL	B	228	18.270	74.185	164.445	0.00	0.00	H
ATOM	14728	HCB	VAL	B	228	16.968	71.563	165.305	0.00	0.00	H
ATOM	14729	HCG1	VAL	B	228	16.230	73.552	163.085	0.00	0.00	H
ATOM	14730	HCG1	VAL	B	228	15.282	72.154	163.622	0.00	0.00	H
ATOM	14731	HCG1	VAL	B	228	15.516	73.544	164.692	0.00	0.00	H
ATOM	14732	HCG2	VAL	B	228	18.389	72.052	162.663	0.00	0.00	H
ATOM	14733	HCG2	VAL	B	228	18.777	70.839	163.875	0.00	0.00	H
ATOM	14734	HCG2	VAL	B	228	17.258	70.704	162.993	0.00	0.00	H
ATOM	14735	N	PHE	B	229	17.062	74.993	166.536	0.00	0.00	N
ATOM	14736	CA	PHE	B	229	16.219	75.388	167.642	0.00	0.00	C
ATOM	14737	C	PHE	B	229	14.791	75.513	167.207	0.00	0.00	C
ATOM	14738	O	PHE	B	229	14.501	76.411	166.373	0.00	0.00	O
ATOM	14739	CB	PHE	B	229	16.723	76.694	168.316	0.00	0.00	C
ATOM	14740	CG	PHE	B	229	18.142	76.684	168.759	0.00	0.00	C
ATOM	14741	CD1	PHE	B	229	18.490	76.390	170.099	0.00	0.00	C
ATOM	14742	CD2	PHE	B	229	19.168	77.034	167.854	0.00	0.00	C
ATOM	14743	CE1	PHE	B	229	19.826	76.493	170.532	0.00	0.00	C
ATOM	14744	CE2	PHE	B	229	20.500	77.156	168.290	0.00	0.00	C
ATOM	14745	CZ	PHE	B	229	20.828	76.885	169.628	0.00	0.00	C
ATOM	14746	HN	PHE	B	229	17.197	75.590	165.793	0.00	0.00	H
ATOM	14747	HCA	PHE	B	229	16.247	74.627	168.430	0.00	0.00	H
ATOM	14748	HCB	PHE	B	229	16.565	77.546	167.650	0.00	0.00	H
ATOM	14749	HCB	PHE	B	229	16.096	76.862	169.190	0.00	0.00	H
ATOM	14750	HCD1	PHE	B	229	17.770	76.116	170.770	0.00	0.00	H
ATOM	14751	HCD2	PHE	B	229	18.948	77.208	166.871	0.00	0.00	H
ATOM	14752	HCE1	PHE	B	229	20.067	76.291	171.505	0.00	0.00	H
ATOM	14753	HCE2	PHE	B	229	21.230	77.434	167.633	0.00	0.00	H
ATOM	14754	HCZ	PHE	B	229	21.798	76.965	169.937	0.00	0.00	H
ATOM	14755	N	ILE	B	230	13.846	74.676	167.730	0.00	0.00	N
ATOM	14756	CA	ILE	B	230	12.421	74.647	167.462	0.00	0.00	C
ATOM	14757	C	ILE	B	230	11.582	74.908	168.688	0.00	0.00	C
ATOM	14758	O	ILE	B	230	11.826	74.206	169.704	0.00	0.00	O
ATOM	14759	CB	ILE	B	230	11.955	73.307	166.778	0.00	0.00	C
ATOM	14760	CG1	ILE	B	230	12.484	72.000	167.455	0.00	0.00	C
ATOM	14761	CG2	ILE	B	230	12.278	73.298	165.260	0.00	0.00	C
ATOM	14762	CD1	ILE	B	230	11.665	70.739	167.086	0.00	0.00	C
ATOM	14763	HN	ILE	B	230	14.168	74.013	168.360	0.00	0.00	H
ATOM	14764	HCA	ILE	B	230	12.220	75.441	166.751	0.00	0.00	H
ATOM	14765	HCB	ILE	B	230	10.860	73.286	166.844	0.00	0.00	H
ATOM	14766	HCD1	ILE	B	230	10.630	70.863	167.408	0.00	0.00	H
ATOM	14767	HCD1	ILE	B	230	11.687	70.550	166.012	0.00	0.00	H
ATOM	14768	HCD1	ILE	B	230	12.074	69.861	167.583	0.00	0.00	H
ATOM	14769	HCG1	ILE	B	230	13.532	71.838	167.189	0.00	0.00	H
ATOM	14770	HCG1	ILE	B	230	12.446	72.099	168.540	0.00	0.00	H
ATOM	14771	HCG2	ILE	B	230	12.024	74.250	164.804	0.00	0.00	H
ATOM	14772	HCG2	ILE	B	230	13.332	73.106	165.093	0.00	0.00	H
ATOM	14773	HCG2	ILE	B	230	11.700	72.530	164.751	0.00	0.00	H
ATOM	14774	N	PRO	B	231	10.526	75.791	168.756	0.00	0.00	N
ATOM	14775	CA	PRO	B	231	9.773	76.067	169.961	0.00	0.00	C
ATOM	14776	C	PRO	B	231	9.258	74.908	170.689	0.00	0.00	C
ATOM	14777	O	PRO	B	231	9.418	74.842	171.902	0.00	0.00	O
ATOM	14778	CB	PRO	B	231	8.619	77.005	169.523	0.00	0.00	C
ATOM	14779	CG	PRO	B	231	9.097	77.622	168.211	0.00	0.00	C
ATOM	14780	CD	PRO	B	231	10.016	76.539	167.641	0.00	0.00	C
ATOM	14781	HCA	PRO	B	231	10.434	76.636	170.625	0.00	0.00	H
ATOM	14782	HCB	PRO	B	231	7.691	76.453	169.332	0.00	0.00	H
ATOM	14783	HCB	PRO	B	231	8.431	77.784	170.267	0.00	0.00	H
ATOM	14784	HCD	PRO	B	231	9.461	75.879	166.973	0.00	0.00	H
ATOM	14785	HCD	PRO	B	231	10.791	77.040	167.077	0.00	0.00	H
ATOM	14786	HCG	PRO	B	231	8.268	77.853	167.535	0.00	0.00	H
ATOM	14787	HCG	PRO	B	231	9.663	78.536	168.409	0.00	0.00	H
ATOM	14788	N	GLU	B	232	8.618	73.945	170.050	0.00	0.00	N
ATOM	14789	CA	GLU	B	232	8.028	72.770	170.615	0.00	0.00	C
ATOM	14790	C	GLU	B	232	8.990	71.847	171.276	0.00	0.00	C
ATOM	14791	O	GLU	B	232	8.496	70.991	172.048	0.00	0.00	O
ATOM	14792	CB	GLU	B	232	7.224	72.001	169.513	0.00	0.00	C
ATOM	14793	CG	GLU	B	232	6.209	72.864	168.693	0.00	0.00	C
ATOM	14794	CD	GLU	B	232	6.724	73.403	167.417	0.00	0.00	C
ATOM	14795	OE1	GLU	B	232	7.862	73.908	167.321	0.00	0.00	O
ATOM	14796	OE2	GLU	B	232	6.031	73.413	166.376	0.00	0.00	O
ATOM	14797	HN	GLU	B	232	8.476	74.034	169.109	0.00	0.00	H
ATOM	14798	HCA	GLU	B	232	7.313	73.104	171.374	0.00	0.00	H

ATOM	14799	HC	GLU	B	232	7.921	71.511	168.824	0.00	0.00	H
ATOM	14800	HC	GLU	B	232	6.661	71.203	170.007	0.00	0.00	H
ATOM	14801	HCG	GLU	B	232	5.332	72.252	168.467	0.00	0.00	H
ATOM	14802	HCG	GLU	B	232	5.861	73.705	169.294	0.00	0.00	H
ATOM	14803	N	CYS	B	233	10.335	71.889	171.078	0.00	0.00	N
ATOM	14804	CA	CYS	B	233	11.266	70.959	171.667	0.00	0.00	C
ATOM	14805	C	CYS	B	233	12.483	71.713	172.077	0.00	0.00	C
ATOM	14806	O	CYS	B	233	13.494	71.672	171.331	0.00	0.00	O
ATOM	14807	CB	CYS	B	233	11.540	69.752	170.732	0.00	0.00	C
ATOM	14808	SG	CYS	B	233	12.308	68.379	171.621	0.00	0.00	S
ATOM	14809	HN	CYS	B	233	10.708	72.600	170.538	0.00	0.00	H
ATOM	14810	HCA	CYS	B	233	10.835	70.518	172.568	0.00	0.00	H
ATOM	14811	HC	CYS	B	233	10.602	69.396	170.317	0.00	0.00	H
ATOM	14812	HC	CYS	B	233	12.189	70.034	169.906	0.00	0.00	H
ATOM	14813	HSG	CYS	B	233	13.400	69.133	171.921	0.00	0.00	H
ATOM	14814	N	PRO	B	234	12.540	72.467	173.216	0.00	0.00	N
ATOM	14815	CA	PRO	B	234	13.701	73.242	173.565	0.00	0.00	C
ATOM	14816	C	PRO	B	234	14.839	72.418	174.005	0.00	0.00	C
ATOM	14817	O	PRO	B	234	14.572	71.360	174.565	0.00	0.00	O
ATOM	14818	CB	PRO	B	234	13.172	74.176	174.667	0.00	0.00	C
ATOM	14819	CG	PRO	B	234	12.071	73.368	175.350	0.00	0.00	C
ATOM	14820	CD	PRO	B	234	11.487	72.557	174.188	0.00	0.00	C
ATOM	14821	HCA	PRO	B	234	13.982	73.854	172.703	0.00	0.00	H
ATOM	14822	HC	PRO	B	234	13.955	74.477	175.356	0.00	0.00	H
ATOM	14823	HC	PRO	B	234	12.723	75.065	174.219	0.00	0.00	H
ATOM	14824	HCD	PRO	B	234	11.194	71.572	174.558	0.00	0.00	H
ATOM	14825	HCD	PRO	B	234	10.619	73.068	173.762	0.00	0.00	H
ATOM	14826	HCG	PRO	B	234	12.498	72.696	176.101	0.00	0.00	H
ATOM	14827	HCG	PRO	B	234	11.329	74.018	175.816	0.00	0.00	H
ATOM	14828	N	PRO	B	235	16.123	72.741	173.839	0.00	0.00	N
ATOM	14829	CA	PRO	B	235	17.212	71.844	174.161	0.00	0.00	C
ATOM	14830	C	PRO	B	235	17.438	71.679	175.607	0.00	0.00	C
ATOM	14831	O	PRO	B	235	17.565	72.668	176.323	0.00	0.00	O
ATOM	14832	CB	PRO	B	235	18.399	72.454	173.388	0.00	0.00	C
ATOM	14833	CG	PRO	B	235	18.113	73.959	173.415	0.00	0.00	C
ATOM	14834	CD	PRO	B	235	16.582	73.990	173.289	0.00	0.00	C
ATOM	14835	HCA	PRO	B	235	17.013	70.864	173.710	0.00	0.00	H
ATOM	14836	HC	PRO	B	235	19.354	72.196	173.829	0.00	0.00	H
ATOM	14837	HC	PRO	B	235	18.396	72.103	172.350	0.00	0.00	H
ATOM	14838	HCD	PRO	B	235	16.174	74.848	173.829	0.00	0.00	H
ATOM	14839	HCD	PRO	B	235	16.305	74.062	172.232	0.00	0.00	H
ATOM	14840	HCG	PRO	B	235	18.428	74.396	174.366	0.00	0.00	H
ATOM	14841	HCG	PRO	B	235	18.609	74.482	172.596	0.00	0.00	H
ATOM	14842	N	ASP	B	236	17.477	70.455	176.113	0.00	0.00	N
ATOM	14843	CA	ASP	B	236	17.457	70.038	177.497	0.00	0.00	C
ATOM	14844	C	ASP	B	236	18.721	70.265	178.271	0.00	0.00	C
ATOM	14845	O	ASP	B	236	19.310	69.327	178.859	0.00	0.00	O
ATOM	14846	CB	ASP	B	236	16.983	68.547	177.515	0.00	0.00	C
ATOM	14847	CG	ASP	B	236	15.607	68.293	177.057	0.00	0.00	C
ATOM	14848	OD1	ASP	B	236	14.789	69.207	176.827	0.00	0.00	O
ATOM	14849	OD2	ASP	B	236	15.205	67.117	176.927	0.00	0.00	O
ATOM	14850	HN	ASP	B	236	17.455	69.738	175.461	0.00	0.00	H
ATOM	14851	HCA	ASP	B	236	16.691	70.619	178.017	0.00	0.00	H
ATOM	14852	HC	ASP	B	236	17.662	67.951	176.900	0.00	0.00	H
ATOM	14853	HC	ASP	B	236	17.032	68.159	178.535	0.00	0.00	H
ATOM	14854	N	ASP	B	237	19.180	71.530	178.385	0.00	0.00	N
ATOM	14855	CA	ASP	B	237	20.241	72.034	179.229	0.00	0.00	C
ATOM	14856	C	ASP	B	237	21.612	71.570	178.841	0.00	0.00	C
ATOM	14857	O	ASP	B	237	21.756	70.582	178.083	0.00	0.00	O
ATOM	14858	CB	ASP	B	237	19.944	71.798	180.744	0.00	0.00	C
ATOM	14859	CG	ASP	B	237	18.625	72.289	181.184	0.00	0.00	C
ATOM	14860	OD1	ASP	B	237	18.412	73.504	181.390	0.00	0.00	O
ATOM	14861	OD2	ASP	B	237	17.680	71.500	181.390	0.00	0.00	O
ATOM	14862	HN	ASP	B	237	18.707	72.123	177.804	0.00	0.00	H
ATOM	14863	HCA	ASP	B	237	20.236	73.115	179.066	0.00	0.00	H
ATOM	14864	HC	ASP	B	237	20.010	70.730	180.961	0.00	0.00	H
ATOM	14865	HC	ASP	B	237	20.702	72.295	181.354	0.00	0.00	H
ATOM	14866	N	ASN	B	238	22.718	72.260	179.231	0.00	0.00	N
ATOM	14867	CA	ASN	B	238	24.092	72.023	178.814	0.00	0.00	C
ATOM	14868	C	ASN	B	238	24.314	72.112	177.333	0.00	0.00	C
ATOM	14869	O	ASN	B	238	25.436	71.867	176.811	0.00	0.00	O
ATOM	14870	CB	ASN	B	238	24.622	70.703	179.456	0.00	0.00	C
ATOM	14871	CG	ASN	B	238	26.089	70.553	179.405	0.00	0.00	C
ATOM	14872	ND2	ASN	B	238	26.905	71.410	180.027	0.00	0.00	N
ATOM	14873	OD1	ASN	B	238	26.627	69.610	178.786	0.00	0.00	O
ATOM	14874	HN	ASN	B	238	22.568	73.010	179.828	0.00	0.00	H
ATOM	14875	HND2	ASN	B	238	26.542	72.155	180.527	0.00	0.00	H
ATOM	14876	HND2	ASN	B	238	27.862	71.277	179.972	0.00	0.00	H
ATOM	14877	HCA	ASN	B	238	24.664	72.852	179.240	0.00	0.00	H
ATOM	14878	HC	ASN	B	238	24.330	70.667	180.508	0.00	0.00	H

ATOM	14879	HCN	ASN	B	238	24.158	69.848	178.958	0.00	0.00	H
ATOM	14880	N	TRP	B	239	23.286	72.518	176.554	0.00	0.00	N
ATOM	14881	CA	TRP	B	239	23.239	72.587	175.130	0.00	0.00	C
ATOM	14882	C	TRP	B	239	24.332	73.394	174.559	0.00	0.00	C
ATOM	14883	O	TRP	B	239	24.791	73.077	173.442	0.00	0.00	O
ATOM	14884	CB	TRP	B	239	21.837	73.089	174.693	0.00	0.00	C
ATOM	14885	CG	TRP	B	239	21.538	74.512	174.985	0.00	0.00	C
ATOM	14886	CD1	TRP	B	239	20.798	74.993	176.069	0.00	0.00	C
ATOM	14887	CD2	TRP	B	239	21.924	75.642	174.261	0.00	0.00	C
ATOM	14888	CE2	TRP	B	239	21.434	76.754	174.947	0.00	0.00	C
ATOM	14889	CE3	TRP	B	239	22.665	75.802	173.074	0.00	0.00	C
ATOM	14890	NE1	TRP	B	239	20.754	76.336	176.022	0.00	0.00	N
ATOM	14891	CZ2	TRP	B	239	21.688	78.061	174.500	0.00	0.00	C
ATOM	14892	CZ3	TRP	B	239	22.938	77.110	172.620	0.00	0.00	C
ATOM	14893	CH2	TRP	B	239	22.450	78.233	173.325	0.00	0.00	C
ATOM	14894	HN	TRP	B	239	22.484	72.781	177.023	0.00	0.00	H
ATOM	14895	HNE1	TRP	B	239	20.325	76.913	176.673	0.00	0.00	H
ATOM	14896	HCA	TRP	B	239	23.343	71.561	174.767	0.00	0.00	H
ATOM	14897	HCN	TRP	B	239	21.718	72.925	173.622	0.00	0.00	H
ATOM	14898	HCN	TRP	B	239	21.101	72.464	175.204	0.00	0.00	H
ATOM	14899	HCD1	TRP	B	239	20.365	74.419	176.793	0.00	0.00	H
ATOM	14900	HCE3	TRP	B	239	23.005	74.994	172.550	0.00	0.00	H
ATOM	14901	HCH2	TRP	B	239	22.652	79.176	172.983	0.00	0.00	H
ATOM	14902	HCZ2	TRP	B	239	21.333	78.865	175.019	0.00	0.00	H
ATOM	14903	HCZ3	TRP	B	239	23.492	77.248	171.773	0.00	0.00	H
ATOM	14904	N	GLU	B	240	24.850	74.420	175.266	0.00	0.00	N
ATOM	14905	CA	GLU	B	240	25.948	75.244	174.910	0.00	0.00	C
ATOM	14906	C	GLU	B	240	27.163	74.440	174.626	0.00	0.00	C
ATOM	14907	O	GLU	B	240	27.815	74.620	173.568	0.00	0.00	O
ATOM	14908	CB	GLU	B	240	26.219	76.230	176.092	0.00	0.00	C
ATOM	14909	CG	GLU	B	240	25.013	77.112	176.549	0.00	0.00	C
ATOM	14910	CD	GLU	B	240	24.019	76.511	177.468	0.00	0.00	C
ATOM	14911	OE1	GLU	B	240	24.041	75.315	177.839	0.00	0.00	O
ATOM	14912	OE2	GLU	B	240	23.099	77.221	177.924	0.00	0.00	O
ATOM	14913	HN	GLU	B	240	24.468	74.627	176.116	0.00	0.00	H
ATOM	14914	HCA	GLU	B	240	25.666	75.814	174.024	0.00	0.00	H
ATOM	14915	HCN	GLU	B	240	26.593	75.679	176.961	0.00	0.00	H
ATOM	14916	HCN	GLU	B	240	27.019	76.904	175.776	0.00	0.00	H
ATOM	14917	HCG	GLU	B	240	25.419	77.983	177.069	0.00	0.00	H
ATOM	14918	HCG	GLU	B	240	24.482	77.478	175.669	0.00	0.00	H
ATOM	14919	N	ASP	B	241	27.524	73.457	175.485	0.00	0.00	N
ATOM	14920	CA	ASP	B	241	28.755	72.735	175.431	0.00	0.00	C
ATOM	14921	C	ASP	B	241	28.559	71.543	174.571	0.00	0.00	C
ATOM	14922	O	ASP	B	241	29.492	71.214	173.801	0.00	0.00	O
ATOM	14923	CB	ASP	B	241	29.254	72.403	176.867	0.00	0.00	C
ATOM	14924	CG	ASP	B	241	30.722	72.284	176.932	0.00	0.00	C
ATOM	14925	OD1	ASP	B	241	31.451	73.262	176.644	0.00	0.00	O
ATOM	14926	OD2	ASP	B	241	31.271	71.221	177.288	0.00	0.00	O
ATOM	14927	HN	ASP	B	241	26.854	73.131	176.094	0.00	0.00	H
ATOM	14928	HCA	ASP	B	241	29.502	73.378	174.953	0.00	0.00	H
ATOM	14929	HCN	ASP	B	241	28.971	73.200	177.557	0.00	0.00	H
ATOM	14930	HCN	ASP	B	241	28.786	71.483	177.227	0.00	0.00	H
ATOM	14931	N	HSE	B	242	27.364	70.894	174.533	0.00	0.00	N
ATOM	14932	CA	HSE	B	242	27.030	69.900	173.540	0.00	0.00	C
ATOM	14933	C	HSE	B	242	27.165	70.453	172.157	0.00	0.00	C
ATOM	14934	O	HSE	B	242	27.890	69.843	171.338	0.00	0.00	O
ATOM	14935	CB	HSE	B	242	25.632	69.281	173.822	0.00	0.00	C
ATOM	14936	CG	HSE	B	242	25.313	68.080	173.013	0.00	0.00	C
ATOM	14937	CD2	HSE	B	242	24.150	67.850	172.286	0.00	0.00	C
ATOM	14938	ND1	HSE	B	242	26.086	66.983	172.877	0.00	0.00	N
ATOM	14939	CE1	HSE	B	242	25.430	66.118	172.083	0.00	0.00	C
ATOM	14940	NE2	HSE	B	242	24.256	66.643	171.722	0.00	0.00	N
ATOM	14941	HN	HSE	B	242	26.707	71.157	175.194	0.00	0.00	H
ATOM	14942	HNE2	HSE	B	242	23.594	66.217	171.155	0.00	0.00	H
ATOM	14943	HCA	HSE	B	242	27.761	69.097	173.654	0.00	0.00	H
ATOM	14944	HCN	HSE	B	242	25.591	68.975	174.870	0.00	0.00	H
ATOM	14945	HCN	HSE	B	242	24.864	70.040	173.669	0.00	0.00	H
ATOM	14946	HCD2	HSE	B	242	23.350	68.475	172.206	0.00	0.00	H
ATOM	14947	HCE1	HSE	B	242	25.775	65.197	171.802	0.00	0.00	H
ATOM	14948	N	LEU	B	243	26.616	71.642	171.804	0.00	0.00	N
ATOM	14949	CA	LEU	B	243	26.835	72.356	170.575	0.00	0.00	C
ATOM	14950	C	LEU	B	243	28.280	72.622	170.331	0.00	0.00	C
ATOM	14951	O	LEU	B	243	28.782	72.200	169.265	0.00	0.00	O
ATOM	14952	CB	LEU	B	243	25.993	73.670	170.586	0.00	0.00	C
ATOM	14953	CG	LEU	B	243	26.187	74.643	169.377	0.00	0.00	C
ATOM	14954	CD1	LEU	B	243	25.781	74.008	168.024	0.00	0.00	C
ATOM	14955	CD2	LEU	B	243	25.391	75.957	169.596	0.00	0.00	C
ATOM	14956	HN	LEU	B	243	26.034	72.072	172.423	0.00	0.00	H
ATOM	14957	HCA	LEU	B	243	26.447	71.724	169.771	0.00	0.00	H
ATOM	14958	HCN	LEU	B	243	24.934	73.401	170.649	0.00	0.00	H

ATOM	14959	HC	LEU	B	243	26.238	74.222	171.496	0.00	0.00		H
ATOM	14960	HCD1	LEU	B	243	24.729	73.745	168.045	0.00	0.00		H
ATOM	14961	HCD1	LEU	B	243	25.941	74.710	167.205	0.00	0.00		H
ATOM	14962	HCD1	LEU	B	243	26.361	73.110	167.815	0.00	0.00		H
ATOM	14963	HCD2	LEU	B	243	25.708	76.441	170.520	0.00	0.00		H
ATOM	14964	HCD2	LEU	B	243	25.569	76.653	168.774	0.00	0.00		H
ATOM	14965	HCD2	LEU	B	243	24.320	75.753	169.656	0.00	0.00		H
ATOM	14966	HCG	LEU	B	243	27.244	74.919	169.320	0.00	0.00		H
ATOM	14967	N	CYS	B	244	29.068	73.308	171.197	0.00	0.00		N
ATOM	14968	CA	CYS	B	244	30.470	73.568	170.950	0.00	0.00		C
ATOM	14969	C	CYS	B	244	31.286	72.342	170.685	0.00	0.00		C
ATOM	14970	O	CYS	B	244	32.099	72.323	169.721	0.00	0.00		O
ATOM	14971	CB	CYS	B	244	31.076	74.441	172.076	0.00	0.00		C
ATOM	14972	SG	CYS	B	244	30.295	76.073	172.133	0.00	0.00		S
ATOM	14973	HN	CYS	B	244	28.658	73.678	171.987	0.00	0.00		H
ATOM	14974	HCA	CYS	B	244	30.510	74.163	170.037	0.00	0.00		H
ATOM	14975	HC	CYS	B	244	30.961	73.949	173.043	0.00	0.00		H
ATOM	14976	HC	CYS	B	244	32.143	74.594	171.896	0.00	0.00		H
ATOM	14977	HSG	CYS	B	244	29.175	75.559	172.662	0.00	0.00		H
ATOM	14978	N	ARG	B	245	31.095	71.221	171.423	0.00	0.00		N
ATOM	14979	CA	ARG	B	245	31.644	69.932	171.121	0.00	0.00		C
ATOM	14980	C	ARG	B	245	31.219	69.471	169.763	0.00	0.00		C
ATOM	14981	O	ARG	B	245	32.132	69.223	168.947	0.00	0.00		O
ATOM	14982	CB	ARG	B	245	31.322	68.930	172.267	0.00	0.00		C
ATOM	14983	CG	ARG	B	245	31.889	67.505	172.005	0.00	0.00		C
ATOM	14984	CD	ARG	B	245	31.834	66.494	173.184	0.00	0.00		C
ATOM	14985	NE	ARG	B	245	30.678	66.557	174.016	0.00	0.00		N
ATOM	14986	CZ	ARG	B	245	29.403	66.514	173.631	0.00	0.00		C
ATOM	14987	NH1	ARG	B	245	28.938	66.396	172.397	0.00	0.00		N
ATOM	14988	NH2	ARG	B	245	28.448	66.648	174.530	0.00	0.00		N
ATOM	14989	HN	ARG	B	245	30.525	71.272	172.189	0.00	0.00		H
ATOM	14990	HNE	ARG	B	245	30.824	66.645	174.967	0.00	0.00		H
ATOM	14991	HNH1	ARG	B	245	29.516	66.246	171.636	0.00	0.00		H
ATOM	14992	HNH1	ARG	B	245	27.991	66.501	172.311	0.00	0.00		H
ATOM	14993	HNH2	ARG	B	245	28.635	66.718	175.474	0.00	0.00		H
ATOM	14994	HNH2	ARG	B	245	27.562	66.708	174.177	0.00	0.00		H
ATOM	14995	HCA	ARG	B	245	32.733	70.042	171.134	0.00	0.00		H
ATOM	14996	HC	ARG	B	245	31.746	69.312	173.200	0.00	0.00		H
ATOM	14997	HC	ARG	B	245	30.239	68.878	172.392	0.00	0.00		H
ATOM	14998	HCD	ARG	B	245	31.937	65.477	172.791	0.00	0.00		H
ATOM	14999	HCD	ARG	B	245	32.698	66.677	173.828	0.00	0.00		H
ATOM	15000	HCG	ARG	B	245	31.333	67.080	171.174	0.00	0.00		H
ATOM	15001	HCG	ARG	B	245	32.931	67.583	171.683	0.00	0.00		H
ATOM	15002	N	ARG	B	246	29.926	69.389	169.352	0.00	0.00		N
ATOM	15003	CA	ARG	B	246	29.491	69.045	168.011	0.00	0.00		C
ATOM	15004	C	ARG	B	246	30.219	69.811	166.950	0.00	0.00		C
ATOM	15005	O	ARG	B	246	30.794	69.200	166.013	0.00	0.00		O
ATOM	15006	CB	ARG	B	246	27.957	69.277	167.818	0.00	0.00		C
ATOM	15007	CG	ARG	B	246	26.999	68.432	168.717	0.00	0.00		C
ATOM	15008	CD	ARG	B	246	26.267	67.276	167.997	0.00	0.00		C
ATOM	15009	NE	ARG	B	246	25.518	67.743	166.867	0.00	0.00		N
ATOM	15010	CZ	ARG	B	246	25.248	67.017	165.780	0.00	0.00		C
ATOM	15011	NH1	ARG	B	246	25.581	65.749	165.623	0.00	0.00		N
ATOM	15012	NH2	ARG	B	246	24.616	67.487	164.719	0.00	0.00		N
ATOM	15013	HN	ARG	B	246	29.251	69.563	170.008	0.00	0.00		H
ATOM	15014	HNE	ARG	B	246	25.178	68.648	166.877	0.00	0.00		H
ATOM	15015	HNH1	ARG	B	246	26.035	65.251	166.309	0.00	0.00		H
ATOM	15016	HNH1	ARG	B	246	25.338	65.366	164.785	0.00	0.00		H
ATOM	15017	HNH2	ARG	B	246	24.295	68.383	164.629	0.00	0.00		H
ATOM	15018	HNH2	ARG	B	246	24.509	66.850	164.012	0.00	0.00		H
ATOM	15019	HCA	ARG	B	246	29.687	67.978	167.868	0.00	0.00		H
ATOM	15020	HC	ARG	B	246	27.739	70.330	167.994	0.00	0.00		H
ATOM	15021	HC	ARG	B	246	27.715	69.100	166.766	0.00	0.00		H
ATOM	15022	HCD	ARG	B	246	27.018	66.535	167.708	0.00	0.00		H
ATOM	15023	HCD	ARG	B	246	25.578	66.800	168.700	0.00	0.00		H
ATOM	15024	HCG	ARG	B	246	27.553	68.002	169.554	0.00	0.00		H
ATOM	15025	HCG	ARG	B	246	26.238	69.090	169.143	0.00	0.00		H
ATOM	15026	N	LEU	B	247	30.266	71.165	167.026	0.00	0.00		N
ATOM	15027	CA	LEU	B	247	30.939	72.040	166.105	0.00	0.00		C
ATOM	15028	C	LEU	B	247	32.383	71.694	165.981	0.00	0.00		C
ATOM	15029	O	LEU	B	247	32.832	71.413	164.844	0.00	0.00		O
ATOM	15030	CB	LEU	B	247	30.763	73.543	166.481	0.00	0.00		C
ATOM	15031	CG	LEU	B	247	29.299	74.091	166.497	0.00	0.00		C
ATOM	15032	CD1	LEU	B	247	29.263	75.499	167.145	0.00	0.00		C
ATOM	15033	CD2	LEU	B	247	28.610	74.156	165.107	0.00	0.00		C
ATOM	15034	HN	LEU	B	247	29.797	71.551	167.765	0.00	0.00		H
ATOM	15035	HCA	LEU	B	247	30.473	71.899	165.130	0.00	0.00		H
ATOM	15036	HC	LEU	B	247	31.200	73.689	167.473	0.00	0.00		H
ATOM	15037	HC	LEU	B	247	31.341	74.151	165.780	0.00	0.00		H
ATOM	15038	HCD1	LEU	B	247	29.625	75.460	168.172	0.00	0.00		H

ATOM	15039	HCD1	LEU	B	247	29.884	76.202	166.584	0.00	0.00		H
ATOM	15040	HCD1	LEU	B	247	28.241	75.878	167.165	0.00	0.00		H
ATOM	15041	HCD2	LEU	B	247	28.660	73.200	164.588	0.00	0.00		H
ATOM	15042	HCD2	LEU	B	247	27.554	74.401	165.225	0.00	0.00		H
ATOM	15043	HCD2	LEU	B	247	29.066	74.929	164.488	0.00	0.00		H
ATOM	15044	HCG	LEU	B	247	28.695	73.428	167.115	0.00	0.00		H
ATOM	15045	N	SER	B	248	33.201	71.647	167.063	0.00	0.00		N
ATOM	15046	CA	SER	B	248	34.590	71.248	167.024	0.00	0.00		C
ATOM	15047	C	SER	B	248	34.810	69.871	166.482	0.00	0.00		C
ATOM	15048	O	SER	B	248	35.707	69.695	165.618	0.00	0.00		O
ATOM	15049	CB	SER	B	248	35.254	71.429	168.412	0.00	0.00		C
ATOM	15050	OG	SER	B	248	34.540	70.775	169.457	0.00	0.00		O
ATOM	15051	HN	SER	B	248	32.816	71.863	167.918	0.00	0.00		H
ATOM	15052	HCA	SER	B	248	35.106	71.948	166.361	0.00	0.00		H
ATOM	15053	HCB	SER	B	248	36.276	71.041	168.393	0.00	0.00		H
ATOM	15054	HCB	SER	B	248	35.312	72.493	168.654	0.00	0.00		H
ATOM	15055	HOG	SER	B	248	33.708	71.266	169.551	0.00	0.00		H
ATOM	15056	N	GLU	B	249	34.030	68.829	166.864	0.00	0.00		N
ATOM	15057	CA	GLU	B	249	34.061	67.496	166.325	0.00	0.00		C
ATOM	15058	C	GLU	B	249	33.905	67.491	164.843	0.00	0.00		C
ATOM	15059	O	GLU	B	249	34.803	66.950	164.155	0.00	0.00		O
ATOM	15060	CB	GLU	B	249	32.983	66.582	166.984	0.00	0.00		C
ATOM	15061	CG	GLU	B	249	33.299	66.148	168.443	0.00	0.00		C
ATOM	15062	CD	GLU	B	249	32.256	65.282	169.029	0.00	0.00		C
ATOM	15063	OE1	GLU	B	249	31.076	65.676	169.170	0.00	0.00		O
ATOM	15064	OE2	GLU	B	249	32.531	64.132	169.432	0.00	0.00		O
ATOM	15065	HN	GLU	B	249	33.394	68.994	167.556	0.00	0.00		H
ATOM	15066	HCA	GLU	B	249	35.033	67.064	166.574	0.00	0.00		H
ATOM	15067	HCB	GLU	B	249	32.012	67.082	166.956	0.00	0.00		H
ATOM	15068	HCB	GLU	B	249	32.898	65.670	166.390	0.00	0.00		H
ATOM	15069	HCG	GLU	B	249	34.251	65.612	168.456	0.00	0.00		H
ATOM	15070	HCG	GLU	B	249	33.408	67.023	169.081	0.00	0.00		H
ATOM	15071	N	THR	B	250	32.838	68.066	164.230	0.00	0.00		N
ATOM	15072	CA	THR	B	250	32.677	68.119	162.792	0.00	0.00		C
ATOM	15073	C	THR	B	250	33.729	68.946	162.118	0.00	0.00		C
ATOM	15074	O	THR	B	250	34.241	68.559	161.035	0.00	0.00		O
ATOM	15075	CB	THR	B	250	31.211	68.446	162.376	0.00	0.00		C
ATOM	15076	CG2	THR	B	250	30.769	69.908	162.581	0.00	0.00		C
ATOM	15077	OG1	THR	B	250	31.005	68.103	161.009	0.00	0.00		O
ATOM	15078	HN	THR	B	250	32.165	68.460	164.795	0.00	0.00		H
ATOM	15079	HCA	THR	B	250	32.824	67.092	162.442	0.00	0.00		H
ATOM	15080	HCB	THR	B	250	30.540	67.810	162.962	0.00	0.00		H
ATOM	15081	HCG2	THR	B	250	31.406	70.590	162.024	0.00	0.00		H
ATOM	15082	HCG2	THR	B	250	29.739	70.043	162.246	0.00	0.00		H
ATOM	15083	HCG2	THR	B	250	30.819	70.160	163.632	0.00	0.00		H
ATOM	15084	HOG1	THR	B	250	30.063	68.325	160.828	0.00	0.00		H
ATOM	15085	N	ARG	B	251	34.240	70.061	162.703	0.00	0.00		N
ATOM	15086	CA	ARG	B	251	35.400	70.786	162.243	0.00	0.00		C
ATOM	15087	C	ARG	B	251	36.562	69.883	162.028	0.00	0.00		C
ATOM	15088	O	ARG	B	251	37.052	69.774	160.880	0.00	0.00		O
ATOM	15089	CB	ARG	B	251	35.802	71.927	163.232	0.00	0.00		C
ATOM	15090	CG	ARG	B	251	36.253	73.250	162.548	0.00	0.00		C
ATOM	15091	CD	ARG	B	251	35.094	74.248	162.320	0.00	0.00		C
ATOM	15092	NE	ARG	B	251	34.378	74.084	161.096	0.00	0.00		N
ATOM	15093	CZ	ARG	B	251	33.345	74.854	160.749	0.00	0.00		C
ATOM	15094	NH1	ARG	B	251	32.895	75.819	161.544	0.00	0.00		N
ATOM	15095	NH2	ARG	B	251	32.800	74.596	159.577	0.00	0.00		N
ATOM	15096	HN	ARG	B	251	33.776	70.420	163.461	0.00	0.00		H
ATOM	15097	HNE	ARG	B	251	34.619	73.399	160.455	0.00	0.00		H
ATOM	15098	HNH1	ARG	B	251	33.318	75.932	162.401	0.00	0.00		H
ATOM	15099	HNH1	ARG	B	251	32.204	76.431	161.311	0.00	0.00		H
ATOM	15100	HNH2	ARG	B	251	33.232	73.935	159.038	0.00	0.00		H
ATOM	15101	HNH2	ARG	B	251	31.991	75.026	159.288	0.00	0.00		H
ATOM	15102	HCA	ARG	B	251	35.120	71.232	161.284	0.00	0.00		H
ATOM	15103	HCB	ARG	B	251	34.976	72.143	163.903	0.00	0.00		H
ATOM	15104	HCB	ARG	B	251	36.613	71.600	163.890	0.00	0.00		H
ATOM	15105	HCD	ARG	B	251	34.389	74.189	163.154	0.00	0.00		H
ATOM	15106	HCD	ARG	B	251	35.508	75.255	162.333	0.00	0.00		H
ATOM	15107	HCG	ARG	B	251	36.970	73.738	163.217	0.00	0.00		H
ATOM	15108	HCG	ARG	B	251	36.779	73.054	161.610	0.00	0.00		H
ATOM	15109	N	THR	B	252	37.053	69.146	163.055	0.00	0.00		N
ATOM	15110	CA	THR	B	252	38.144	68.211	162.928	0.00	0.00		C
ATOM	15111	C	THR	B	252	37.807	66.987	162.128	0.00	0.00		C
ATOM	15112	O	THR	B	252	38.699	66.116	161.958	0.00	0.00		O
ATOM	15113	CB	THR	B	252	38.810	67.924	164.317	0.00	0.00		C
ATOM	15114	CG2	THR	B	252	38.005	66.999	165.251	0.00	0.00		C
ATOM	15115	OG1	THR	B	252	40.080	67.307	164.122	0.00	0.00		O
ATOM	15116	HN	THR	B	252	36.625	69.265	163.910	0.00	0.00		H
ATOM	15117	HCA	THR	B	252	38.924	68.720	162.351	0.00	0.00		H
ATOM	15118	HCB	THR	B	252	38.985	68.873	164.835	0.00	0.00		H

ATOM	15119	HCG2	THR	B	252	37.057	67.466	165.494	0.00	0.00	H
ATOM	15120	HCG2	THR	B	252	37.817	66.031	164.784	0.00	0.00	H
ATOM	15121	HCG2	THR	B	252	38.555	66.837	166.180	0.00	0.00	H
ATOM	15122	HOG1	THR	B	252	39.837	66.710	163.398	0.00	0.00	H
ATOM	15123	N	ARG	B	253	36.614	66.837	161.495	0.00	0.00	N
ATOM	15124	CA	ARG	B	253	36.271	65.808	160.549	0.00	0.00	C
ATOM	15125	C	ARG	B	253	36.390	66.370	159.170	0.00	0.00	C
ATOM	15126	O	ARG	B	253	36.380	65.581	158.199	0.00	0.00	O
ATOM	15127	CB	ARG	B	253	34.833	65.296	160.897	0.00	0.00	C
ATOM	15128	CG	ARG	B	253	34.483	63.817	160.554	0.00	0.00	C
ATOM	15129	CD	ARG	B	253	34.299	63.452	159.060	0.00	0.00	C
ATOM	15130	NE	ARG	B	253	33.356	64.310	158.416	0.00	0.00	N
ATOM	15131	CZ	ARG	B	253	33.326	64.618	157.116	0.00	0.00	C
ATOM	15132	NH1	ARG	B	253	34.208	64.196	156.222	0.00	0.00	N
ATOM	15133	NH2	ARG	B	253	32.343	65.385	156.677	0.00	0.00	N
ATOM	15134	HN	ARG	B	253	35.931	67.509	161.586	0.00	0.00	H
ATOM	15135	HNE	ARG	B	253	32.650	64.681	158.961	0.00	0.00	H
ATOM	15136	HNH1	ARG	B	253	34.947	63.645	156.502	0.00	0.00	H
ATOM	15137	HNH1	ARG	B	253	34.115	64.450	155.296	0.00	0.00	H
ATOM	15138	HNH2	ARG	B	253	31.676	65.713	157.292	0.00	0.00	H
ATOM	15139	HNH2	ARG	B	253	32.296	65.615	155.741	0.00	0.00	H
ATOM	15140	HCA	ARG	B	253	36.967	64.968	160.628	0.00	0.00	H
ATOM	15141	HCB	ARG	B	253	34.701	65.372	161.980	0.00	0.00	H
ATOM	15142	HCB	ARG	B	253	34.086	65.957	160.448	0.00	0.00	H
ATOM	15143	HCD	ARG	B	253	35.271	63.440	158.568	0.00	0.00	H
ATOM	15144	HCD	ARG	B	253	33.902	62.438	159.002	0.00	0.00	H
ATOM	15145	HCG	ARG	B	253	35.249	63.163	160.979	0.00	0.00	H
ATOM	15146	HCG	ARG	B	253	33.544	63.572	161.062	0.00	0.00	H
ATOM	15147	N	GLY	B	254	36.549	67.701	158.933	0.00	0.00	N
ATOM	15148	CA	GLY	B	254	36.644	68.332	157.653	0.00	0.00	C
ATOM	15149	C	GLY	B	254	35.552	69.279	157.352	0.00	0.00	C
ATOM	15150	O	GLY	B	254	35.572	69.770	156.198	0.00	0.00	O
ATOM	15151	HN	GLY	B	254	36.633	68.299	159.675	0.00	0.00	H
ATOM	15152	HCA	GLY	B	254	37.585	68.887	157.629	0.00	0.00	H
ATOM	15153	HCA	GLY	B	254	36.679	67.599	156.843	0.00	0.00	H
ATOM	15154	N	SER	B	255	34.556	69.621	158.216	0.00	0.00	N
ATOM	15155	CA	SER	B	255	33.444	70.459	157.829	0.00	0.00	C
ATOM	15156	C	SER	B	255	33.830	71.821	157.357	0.00	0.00	C
ATOM	15157	O	SER	B	255	34.366	72.644	158.141	0.00	0.00	O
ATOM	15158	CB	SER	B	255	32.376	70.567	158.942	0.00	0.00	C
ATOM	15159	OG	SER	B	255	32.797	71.400	160.020	0.00	0.00	O
ATOM	15160	HN	SER	B	255	34.550	69.263	159.113	0.00	0.00	H
ATOM	15161	HCA	SER	B	255	32.948	69.932	157.006	0.00	0.00	H
ATOM	15162	HCB	SER	B	255	31.456	70.983	158.519	0.00	0.00	H
ATOM	15163	HCB	SER	B	255	32.144	69.574	159.323	0.00	0.00	H
ATOM	15164	HOG	SER	B	255	31.994	71.891	160.252	0.00	0.00	H
ATOM	15165	N	ARG	B	256	33.571	72.161	156.073	0.00	0.00	N
ATOM	15166	CA	ARG	B	256	33.840	73.425	155.446	0.00	0.00	C
ATOM	15167	C	ARG	B	256	33.064	74.513	156.101	0.00	0.00	C
ATOM	15168	O	ARG	B	256	33.658	75.480	156.633	0.00	0.00	O
ATOM	15169	CB	ARG	B	256	33.483	73.332	153.932	0.00	0.00	C
ATOM	15170	CG	ARG	B	256	34.293	72.276	153.128	0.00	0.00	C
ATOM	15171	CD	ARG	B	256	33.915	72.225	151.624	0.00	0.00	C
ATOM	15172	NE	ARG	B	256	32.536	71.907	151.409	0.00	0.00	N
ATOM	15173	CZ	ARG	B	256	31.974	70.697	151.489	0.00	0.00	C
ATOM	15174	NH1	ARG	B	256	32.636	69.583	151.766	0.00	0.00	N
ATOM	15175	NH2	ARG	B	256	30.673	70.591	151.281	0.00	0.00	N
ATOM	15176	HN	ARG	B	256	33.163	71.476	155.522	0.00	0.00	H
ATOM	15177	HNE	ARG	B	256	31.939	72.639	151.208	0.00	0.00	H
ATOM	15178	HNH1	ARG	B	256	33.586	69.616	151.923	0.00	0.00	H
ATOM	15179	HNH1	ARG	B	256	32.165	68.741	151.806	0.00	0.00	H
ATOM	15180	HNH2	ARG	B	256	30.148	71.374	151.074	0.00	0.00	H
ATOM	15181	HNH2	ARG	B	256	30.248	69.725	151.334	0.00	0.00	H
ATOM	15182	HCA	ARG	B	256	34.910	73.642	155.535	0.00	0.00	H
ATOM	15183	HCB	ARG	B	256	32.417	73.110	153.825	0.00	0.00	H
ATOM	15184	HCB	ARG	B	256	33.663	74.310	153.483	0.00	0.00	H
ATOM	15185	HCD	ARG	B	256	34.111	73.203	151.176	0.00	0.00	H
ATOM	15186	HCD	ARG	B	256	34.556	71.503	151.107	0.00	0.00	H
ATOM	15187	HCG	ARG	B	256	35.358	72.512	153.207	0.00	0.00	H
ATOM	15188	HCG	ARG	B	256	34.143	71.285	153.562	0.00	0.00	H
ATOM	15189	N	LEU	B	257	31.717	74.410	156.151	0.00	0.00	N
ATOM	15190	CA	LEU	B	257	30.803	75.280	156.832	0.00	0.00	C
ATOM	15191	C	LEU	B	257	29.995	74.543	157.837	0.00	0.00	C
ATOM	15192	O	LEU	B	257	29.909	73.295	157.775	0.00	0.00	O
ATOM	15193	CB	LEU	B	257	29.894	76.019	155.807	0.00	0.00	C
ATOM	15194	CG	LEU	B	257	28.677	75.231	155.215	0.00	0.00	C
ATOM	15195	CD1	LEU	B	257	27.811	76.187	154.366	0.00	0.00	C
ATOM	15196	CD2	LEU	B	257	29.054	73.971	154.391	0.00	0.00	C
ATOM	15197	HN	LEU	B	257	31.332	73.644	155.704	0.00	0.00	H
ATOM	15198	HCA	LEU	B	257	31.370	76.041	157.376	0.00	0.00	H

ATOM	15199	HC	LEU	B	257	29.493	76.896	156.321	0.00	0.00	H
ATOM	15200	HC	LEU	B	257	30.515	76.401	154.994	0.00	0.00	H
ATOM	15201	HCD1	LEU	B	257	27.519	77.052	154.962	0.00	0.00	H
ATOM	15202	HCD1	LEU	B	257	28.351	76.537	153.486	0.00	0.00	H
ATOM	15203	HCD1	LEU	B	257	26.903	75.678	154.048	0.00	0.00	H
ATOM	15204	HCD2	LEU	B	257	29.778	74.213	153.615	0.00	0.00	H
ATOM	15205	HCD2	LEU	B	257	29.469	73.198	155.036	0.00	0.00	H
ATOM	15206	HCD2	LEU	B	257	28.167	73.548	153.912	0.00	0.00	H
ATOM	15207	HCG	LEU	B	257	28.040	74.899	156.042	0.00	0.00	H
ATOM	15208	N	ASN	B	258	29.326	75.246	158.779	0.00	0.00	N
ATOM	15209	CA	ASN	B	258	28.346	74.723	159.698	0.00	0.00	C
ATOM	15210	C	ASN	B	258	27.089	75.534	159.591	0.00	0.00	C
ATOM	15211	O	ASN	B	258	27.158	76.789	159.583	0.00	0.00	O
ATOM	15212	CB	ASN	B	258	28.940	74.698	161.140	0.00	0.00	C
ATOM	15213	CG	ASN	B	258	30.013	73.708	161.385	0.00	0.00	C
ATOM	15214	ND2	ASN	B	258	30.661	73.648	162.552	0.00	0.00	N
ATOM	15215	OD1	ASN	B	258	30.417	72.891	160.538	0.00	0.00	O
ATOM	15216	HN	ASN	B	258	29.491	76.200	158.798	0.00	0.00	H
ATOM	15217	HND2	ASN	B	258	30.444	74.264	163.259	0.00	0.00	H
ATOM	15218	HND2	ASN	B	258	31.340	72.971	162.682	0.00	0.00	H
ATOM	15219	HCA	ASN	B	258	28.087	73.692	159.434	0.00	0.00	H
ATOM	15220	HC	ASN	B	258	29.346	75.680	161.374	0.00	0.00	H
ATOM	15221	HC	ASN	B	258	28.138	74.480	161.848	0.00	0.00	H
ATOM	15222	N	ILE	B	259	25.881	74.924	159.504	0.00	0.00	N
ATOM	15223	CA	ILE	B	259	24.589	75.543	159.313	0.00	0.00	C
ATOM	15224	C	ILE	B	259	23.790	75.419	160.568	0.00	0.00	C
ATOM	15225	O	ILE	B	259	23.445	74.278	160.972	0.00	0.00	O
ATOM	15226	CB	ILE	B	259	23.842	74.899	158.087	0.00	0.00	C
ATOM	15227	CG1	ILE	B	259	24.582	75.059	156.720	0.00	0.00	C
ATOM	15228	CG2	ILE	B	259	22.359	75.368	157.958	0.00	0.00	C
ATOM	15229	CD1	ILE	B	259	24.796	76.513	156.234	0.00	0.00	C
ATOM	15230	HN	ILE	B	259	25.894	73.969	159.589	0.00	0.00	H
ATOM	15231	HCA	ILE	B	259	24.709	76.608	159.095	0.00	0.00	H
ATOM	15232	HC	ILE	B	259	23.805	73.821	158.274	0.00	0.00	H
ATOM	15233	HCD1	ILE	B	259	23.922	77.138	156.414	0.00	0.00	H
ATOM	15234	HCD1	ILE	B	259	25.656	76.945	156.744	0.00	0.00	H
ATOM	15235	HCD1	ILE	B	259	24.985	76.521	155.162	0.00	0.00	H
ATOM	15236	HCG1	ILE	B	259	25.557	74.566	156.781	0.00	0.00	H
ATOM	15237	HCG1	ILE	B	259	24.016	74.522	155.952	0.00	0.00	H
ATOM	15238	HCG2	ILE	B	259	21.770	75.005	158.799	0.00	0.00	H
ATOM	15239	HCG2	ILE	B	259	22.292	76.456	157.945	0.00	0.00	H
ATOM	15240	HCG2	ILE	B	259	21.901	74.977	157.047	0.00	0.00	H
ATOM	15241	N	ILE	B	260	23.401	76.532	161.242	0.00	0.00	N
ATOM	15242	CA	ILE	B	260	22.582	76.560	162.430	0.00	0.00	C
ATOM	15243	C	ILE	B	260	21.280	77.225	162.118	0.00	0.00	C
ATOM	15244	O	ILE	B	260	21.269	78.394	161.655	0.00	0.00	O
ATOM	15245	CB	ILE	B	260	23.344	77.215	163.636	0.00	0.00	C
ATOM	15246	CG1	ILE	B	260	24.727	76.521	163.894	0.00	0.00	C
ATOM	15247	CG2	ILE	B	260	22.447	77.199	164.912	0.00	0.00	C
ATOM	15248	CD1	ILE	B	260	25.611	77.172	164.987	0.00	0.00	C
ATOM	15249	HN	ILE	B	260	23.708	77.378	160.907	0.00	0.00	H
ATOM	15250	HCA	ILE	B	260	22.362	75.538	162.740	0.00	0.00	H
ATOM	15251	HC	ILE	B	260	23.547	78.259	163.381	0.00	0.00	H
ATOM	15252	HCD1	ILE	B	260	25.676	78.250	164.838	0.00	0.00	H
ATOM	15253	HCD1	ILE	B	260	25.212	76.973	165.981	0.00	0.00	H
ATOM	15254	HCD1	ILE	B	260	26.620	76.760	164.941	0.00	0.00	H
ATOM	15255	HCG1	ILE	B	260	24.570	75.469	164.147	0.00	0.00	H
ATOM	15256	HCG1	ILE	B	260	25.312	76.546	162.970	0.00	0.00	H
ATOM	15257	HCG2	ILE	B	260	21.555	77.810	164.764	0.00	0.00	H
ATOM	15258	HCG2	ILE	B	260	22.132	76.184	165.152	0.00	0.00	H
ATOM	15259	HCG2	ILE	B	260	22.975	77.604	165.770	0.00	0.00	H
ATOM	15260	N	ILE	B	261	20.116	76.574	162.369	0.00	0.00	N
ATOM	15261	CA	ILE	B	261	18.789	77.062	162.066	0.00	0.00	C
ATOM	15262	C	ILE	B	261	18.097	77.483	163.321	0.00	0.00	C
ATOM	15263	O	ILE	B	261	17.843	76.640	164.220	0.00	0.00	O
ATOM	15264	CB	ILE	B	261	17.970	75.996	161.256	0.00	0.00	C
ATOM	15265	CG1	ILE	B	261	18.696	75.458	159.977	0.00	0.00	C
ATOM	15266	CG2	ILE	B	261	16.540	76.504	160.902	0.00	0.00	C
ATOM	15267	CD1	ILE	B	261	19.069	76.510	158.906	0.00	0.00	C
ATOM	15268	HN	ILE	B	261	20.204	75.710	162.782	0.00	0.00	H
ATOM	15269	HCA	ILE	B	261	18.857	77.944	161.423	0.00	0.00	H
ATOM	15270	HC	ILE	B	261	17.840	75.127	161.909	0.00	0.00	H
ATOM	15271	HCD1	ILE	B	261	18.203	77.103	158.612	0.00	0.00	H
ATOM	15272	HCD1	ILE	B	261	19.847	77.172	159.285	0.00	0.00	H
ATOM	15273	HCD1	ILE	B	261	19.448	76.007	158.015	0.00	0.00	H
ATOM	15274	HCG1	ILE	B	261	19.609	74.941	160.282	0.00	0.00	H
ATOM	15275	HCG1	ILE	B	261	18.063	74.708	159.497	0.00	0.00	H
ATOM	15276	HCG2	ILE	B	261	15.970	76.705	161.808	0.00	0.00	H
ATOM	15277	HCG2	ILE	B	261	16.581	77.424	160.318	0.00	0.00	H
ATOM	15278	HCG2	ILE	B	261	16.001	75.749	160.328	0.00	0.00	H



ATOM	15279	N	VAL	B	262	17.705	78.771	163.481	0.00	0.00	N
ATOM	15280	CA	VAL	B	262	17.031	79.304	164.638	0.00	0.00	C
ATOM	15281	C	VAL	B	262	15.640	79.663	164.251	0.00	0.00	C
ATOM	15282	O	VAL	B	262	15.457	80.600	163.436	0.00	0.00	O
ATOM	15283	CB	VAL	B	262	17.829	80.524	165.225	0.00	0.00	C
ATOM	15284	CG1	VAL	B	262	17.181	81.084	166.525	0.00	0.00	C
ATOM	15285	CG2	VAL	B	262	19.325	80.203	165.497	0.00	0.00	C
ATOM	15286	HN	VAL	B	262	17.897	79.387	162.768	0.00	0.00	H
ATOM	15287	HCA	VAL	B	262	16.969	78.555	165.431	0.00	0.00	H
ATOM	15288	HCB	VAL	B	262	17.820	81.327	164.483	0.00	0.00	H
ATOM	15289	HCG1	VAL	B	262	16.161	81.421	166.336	0.00	0.00	H
ATOM	15290	HCG1	VAL	B	262	17.157	80.322	167.306	0.00	0.00	H
ATOM	15291	HCG1	VAL	B	262	17.744	81.944	166.896	0.00	0.00	H
ATOM	15292	HCG2	VAL	B	262	19.824	79.881	164.581	0.00	0.00	H
ATOM	15293	HCG2	VAL	B	262	19.845	81.090	165.861	0.00	0.00	H
ATOM	15294	HCG2	VAL	B	262	19.425	79.420	166.244	0.00	0.00	H
ATOM	15295	N	ALA	B	263	14.556	79.036	164.776	0.00	0.00	N
ATOM	15296	CA	ALA	B	263	13.221	79.561	164.664	0.00	0.00	C
ATOM	15297	C	ALA	B	263	13.068	80.787	165.495	0.00	0.00	C
ATOM	15298	O	ALA	B	263	13.406	80.727	166.699	0.00	0.00	O
ATOM	15299	CB	ALA	B	263	12.239	78.464	165.124	0.00	0.00	C
ATOM	15300	HN	ALA	B	263	14.667	78.234	165.305	0.00	0.00	H
ATOM	15301	HCA	ALA	B	263	12.989	79.794	163.622	0.00	0.00	H
ATOM	15302	HCB	ALA	B	263	12.458	78.200	166.157	0.00	0.00	H
ATOM	15303	HCB	ALA	B	263	11.207	78.817	165.055	0.00	0.00	H
ATOM	15304	HCB	ALA	B	263	12.341	77.571	164.506	0.00	0.00	H
ATOM	15305	N	GLU	B	264	12.588	81.954	165.005	0.00	0.00	N
ATOM	15306	CA	GLU	B	264	12.378	83.162	165.770	0.00	0.00	C
ATOM	15307	C	GLU	B	264	11.776	82.966	167.129	0.00	0.00	C
ATOM	15308	O	GLU	B	264	12.305	83.555	168.102	0.00	0.00	O
ATOM	15309	CB	GLU	B	264	11.589	84.206	164.926	0.00	0.00	C
ATOM	15310	CG	GLU	B	264	10.128	83.780	164.620	0.00	0.00	C
ATOM	15311	CD	GLU	B	264	9.381	84.589	163.647	0.00	0.00	C
ATOM	15312	OE1	GLU	B	264	9.842	85.630	163.132	0.00	0.00	O
ATOM	15313	OE2	GLU	B	264	8.253	84.188	163.286	0.00	0.00	O
ATOM	15314	HN	GLU	B	264	12.438	81.996	164.058	0.00	0.00	H
ATOM	15315	HCA	GLU	B	264	13.377	83.589	165.916	0.00	0.00	H
ATOM	15316	HCB	GLU	B	264	11.576	85.166	165.451	0.00	0.00	H
ATOM	15317	HCB	GLU	B	264	12.120	84.361	163.981	0.00	0.00	H
ATOM	15318	HCG	GLU	B	264	10.163	82.768	164.228	0.00	0.00	H
ATOM	15319	HCG	GLU	B	264	9.545	83.778	165.541	0.00	0.00	H
ATOM	15320	N	GLY	B	265	10.710	82.152	167.353	0.00	0.00	N
ATOM	15321	CA	GLY	B	265	10.141	81.881	168.644	0.00	0.00	C
ATOM	15322	C	GLY	B	265	10.864	80.933	169.522	0.00	0.00	C
ATOM	15323	O	GLY	B	265	10.310	80.614	170.600	0.00	0.00	O
ATOM	15324	HN	GLY	B	265	10.272	81.714	166.615	0.00	0.00	H
ATOM	15325	HCA	GLY	B	265	9.990	82.817	169.189	0.00	0.00	H
ATOM	15326	HCA	GLY	B	265	9.158	81.452	168.463	0.00	0.00	H
ATOM	15327	N	ALA	B	266	12.061	80.389	169.203	0.00	0.00	N
ATOM	15328	CA	ALA	B	266	12.803	79.452	169.994	0.00	0.00	C
ATOM	15329	C	ALA	B	266	13.100	79.893	171.386	0.00	0.00	C
ATOM	15330	O	ALA	B	266	13.634	81.006	171.601	0.00	0.00	O
ATOM	15331	CB	ALA	B	266	14.127	79.139	169.263	0.00	0.00	C
ATOM	15332	HN	ALA	B	266	12.452	80.606	168.358	0.00	0.00	H
ATOM	15333	HCA	ALA	B	266	12.225	78.523	170.025	0.00	0.00	H
ATOM	15334	HCB	ALA	B	266	14.678	80.057	169.044	0.00	0.00	H
ATOM	15335	HCB	ALA	B	266	14.750	78.506	169.892	0.00	0.00	H
ATOM	15336	HCB	ALA	B	266	13.933	78.614	168.326	0.00	0.00	H
ATOM	15337	N	ILE	B	267	12.837	79.038	172.398	0.00	0.00	N
ATOM	15338	CA	ILE	B	267	13.104	79.224	173.799	0.00	0.00	C
ATOM	15339	C	ILE	B	267	14.013	78.163	174.315	0.00	0.00	C
ATOM	15340	O	ILE	B	267	14.120	77.069	173.712	0.00	0.00	O
ATOM	15341	CB	ILE	B	267	11.752	79.281	174.601	0.00	0.00	C
ATOM	15342	CG1	ILE	B	267	10.796	78.090	174.251	0.00	0.00	C
ATOM	15343	CG2	ILE	B	267	11.053	80.658	174.401	0.00	0.00	C
ATOM	15344	CD1	ILE	B	267	9.555	77.936	175.160	0.00	0.00	C
ATOM	15345	HN	ILE	B	267	12.432	78.194	172.150	0.00	0.00	H
ATOM	15346	HCA	ILE	B	267	13.639	80.162	173.947	0.00	0.00	H
ATOM	15347	HCB	ILE	B	267	11.993	79.211	175.668	0.00	0.00	H
ATOM	15348	HCD1	ILE	B	267	9.854	77.820	176.203	0.00	0.00	H
ATOM	15349	HCD1	ILE	B	267	8.890	78.795	175.069	0.00	0.00	H
ATOM	15350	HCD1	ILE	B	267	8.998	77.051	174.854	0.00	0.00	H
ATOM	15351	HCG1	ILE	B	267	10.445	78.189	173.220	0.00	0.00	H
ATOM	15352	HCG1	ILE	B	267	11.356	77.154	174.317	0.00	0.00	H
ATOM	15353	HCG2	ILE	B	267	11.728	81.473	174.663	0.00	0.00	H
ATOM	15354	HCG2	ILE	B	267	10.739	80.786	173.364	0.00	0.00	H
ATOM	15355	HCG2	ILE	B	267	10.178	80.750	175.045	0.00	0.00	H
ATOM	15356	N	ASP	B	268	14.740	78.386	175.435	0.00	0.00	N
ATOM	15357	CA	ASP	B	268	15.465	77.391	176.178	0.00	0.00	C
ATOM	15358	C	ASP	B	268	14.556	76.526	176.994	0.00	0.00	C

ATOM	15359	O	ASP	B	268	13.366	76.868	177.204	0.00	0.00	O
ATOM	15360	CB	ASP	B	268	16.604	78.075	177.008	0.00	0.00	C
ATOM	15361	CG	ASP	B	268	16.332	78.166	178.448	0.00	0.00	C
ATOM	15362	OD1	ASP	B	268	15.482	78.944	178.922	0.00	0.00	O
ATOM	15363	OD2	ASP	B	268	16.790	77.305	179.222	0.00	0.00	O
ATOM	15364	HN	ASP	B	268	14.759	79.290	175.743	0.00	0.00	H
ATOM	15365	HCA	ASP	B	268	15.954	76.734	175.452	0.00	0.00	H
ATOM	15366	HCB	ASP	B	268	17.524	77.497	176.883	0.00	0.00	H
ATOM	15367	HCB	ASP	B	268	16.819	79.081	176.641	0.00	0.00	H
ATOM	15368	N	ARG	B	269	15.036	75.400	177.577	0.00	0.00	N
ATOM	15369	CA	ARG	B	269	14.279	74.506	178.414	0.00	0.00	C
ATOM	15370	C	ARG	B	269	13.669	75.162	179.601	0.00	0.00	C
ATOM	15371	O	ARG	B	269	12.658	74.627	180.121	0.00	0.00	O
ATOM	15372	CB	ARG	B	269	15.180	73.290	178.789	0.00	0.00	C
ATOM	15373	CG	ARG	B	269	14.575	72.232	179.761	0.00	0.00	C
ATOM	15374	CD	ARG	B	269	13.293	71.536	179.237	0.00	0.00	C
ATOM	15375	NE	ARG	B	269	12.715	70.685	180.225	0.00	0.00	N
ATOM	15376	CZ	ARG	B	269	11.969	71.074	181.263	0.00	0.00	C
ATOM	15377	NH1	ARG	B	269	11.672	72.332	181.563	0.00	0.00	N
ATOM	15378	NH2	ARG	B	269	11.487	70.138	182.063	0.00	0.00	N
ATOM	15379	HN	ARG	B	269	15.967	75.180	177.413	0.00	0.00	H
ATOM	15380	HNE	ARG	B	269	12.884	69.735	180.148	0.00	0.00	H
ATOM	15381	HNH1	ARG	B	269	12.011	73.059	181.044	0.00	0.00	H
ATOM	15382	HNH1	ARG	B	269	11.114	72.517	182.326	0.00	0.00	H
ATOM	15383	HNH2	ARG	B	269	11.676	69.209	181.886	0.00	0.00	H
ATOM	15384	HNH2	ARG	B	269	10.946	70.384	182.823	0.00	0.00	H
ATOM	15385	HCA	ARG	B	269	13.455	74.140	177.800	0.00	0.00	H
ATOM	15386	HCB	ARG	B	269	15.456	72.778	177.865	0.00	0.00	H
ATOM	15387	HCB	ARG	B	269	16.104	73.665	179.243	0.00	0.00	H
ATOM	15388	HCD	ARG	B	269	12.552	72.263	178.908	0.00	0.00	H
ATOM	15389	HCD	ARG	B	269	13.550	70.928	178.367	0.00	0.00	H
ATOM	15390	HCG	ARG	B	269	15.326	71.460	179.945	0.00	0.00	H
ATOM	15391	HCG	ARG	B	269	14.377	72.705	180.725	0.00	0.00	H
ATOM	15392	N	ASN	B	270	14.169	76.314	180.102	0.00	0.00	N
ATOM	15393	CA	ASN	B	270	13.651	77.034	181.226	0.00	0.00	C
ATOM	15394	C	ASN	B	270	12.876	78.238	180.793	0.00	0.00	C
ATOM	15395	O	ASN	B	270	12.448	79.001	181.694	0.00	0.00	O
ATOM	15396	CB	ASN	B	270	14.838	77.333	182.197	0.00	0.00	C
ATOM	15397	CG	ASN	B	270	15.692	76.153	182.485	0.00	0.00	C
ATOM	15398	ND2	ASN	B	270	16.600	75.754	181.586	0.00	0.00	N
ATOM	15399	OD1	ASN	B	270	15.584	75.505	183.546	0.00	0.00	O
ATOM	15400	HN	ASN	B	270	14.960	76.686	179.704	0.00	0.00	H
ATOM	15401	HND2	ASN	B	270	16.685	76.269	180.789	0.00	0.00	H
ATOM	15402	HND2	ASN	B	270	17.157	74.978	181.685	0.00	0.00	H
ATOM	15403	HCA	ASN	B	270	12.940	76.417	181.787	0.00	0.00	H
ATOM	15404	HCB	ASN	B	270	15.468	78.122	181.778	0.00	0.00	H
ATOM	15405	HCB	ASN	B	270	14.434	77.706	183.141	0.00	0.00	H
ATOM	15406	N	GLY	B	271	12.562	78.496	179.491	0.00	0.00	N
ATOM	15407	CA	GLY	B	271	11.648	79.507	179.022	0.00	0.00	C
ATOM	15408	C	GLY	B	271	12.224	80.738	178.434	0.00	0.00	C
ATOM	15409	O	GLY	B	271	11.416	81.611	178.040	0.00	0.00	O
ATOM	15410	HN	GLY	B	271	12.923	77.925	178.806	0.00	0.00	H
ATOM	15411	HCA	GLY	B	271	11.026	79.038	178.257	0.00	0.00	H
ATOM	15412	HCA	GLY	B	271	10.974	79.816	179.825	0.00	0.00	H
ATOM	15413	N	LYS	B	272	13.554	80.964	178.327	0.00	0.00	N
ATOM	15414	CA	LYS	B	272	14.179	82.210	177.959	0.00	0.00	C
ATOM	15415	C	LYS	B	272	14.495	82.244	176.495	0.00	0.00	C
ATOM	15416	O	LYS	B	272	14.940	81.182	175.998	0.00	0.00	O
ATOM	15417	CB	LYS	B	272	15.458	82.432	178.828	0.00	0.00	C
ATOM	15418	CG	LYS	B	272	15.197	82.780	180.327	0.00	0.00	C
ATOM	15419	CD	LYS	B	272	14.796	81.571	181.217	0.00	0.00	C
ATOM	15420	CE	LYS	B	272	14.378	81.976	182.649	0.00	0.00	C
ATOM	15421	NZ	LYS	B	272	13.974	80.789	183.410	0.00	0.00	N
ATOM	15422	HN	LYS	B	272	14.152	80.247	178.540	0.00	0.00	H
ATOM	15423	HNZ	LYS	B	272	13.412	80.190	182.830	0.00	0.00	H
ATOM	15424	HNZ	LYS	B	272	14.803	80.275	183.705	0.00	0.00	H
ATOM	15425	HNZ	LYS	B	272	13.440	81.068	184.233	0.00	0.00	H
ATOM	15426	HCA	LYS	B	272	13.494	83.029	178.187	0.00	0.00	H
ATOM	15427	HCB	LYS	B	272	16.111	81.558	178.762	0.00	0.00	H
ATOM	15428	HCB	LYS	B	272	16.016	83.272	178.403	0.00	0.00	H
ATOM	15429	HCD	LYS	B	272	13.948	81.058	180.775	0.00	0.00	H
ATOM	15430	HCD	LYS	B	272	15.631	80.866	181.264	0.00	0.00	H
ATOM	15431	HCE	LYS	B	272	15.205	82.469	183.165	0.00	0.00	H
ATOM	15432	HCE	LYS	B	272	13.530	82.664	182.606	0.00	0.00	H
ATOM	15433	HCG	LYS	B	272	16.114	83.209	180.742	0.00	0.00	H
ATOM	15434	HCG	LYS	B	272	14.425	83.553	180.383	0.00	0.00	H
ATOM	15435	N	PRO	B	273	14.337	83.335	175.679	0.00	0.00	N
ATOM	15436	CA	PRO	B	273	14.477	83.291	174.238	0.00	0.00	C
ATOM	15437	C	PRO	B	273	15.829	83.026	173.741	0.00	0.00	C
ATOM	15438	O	PRO	B	273	16.785	83.597	174.250	0.00	0.00	O

ATOM	15439	CB	PRO	B	273	13.944	84.664	173.755	0.00	0.00	C
ATOM	15440	CG	PRO	B	273	14.170	85.585	174.958	0.00	0.00	C
ATOM	15441	CD	PRO	B	273	13.970	84.639	176.152	0.00	0.00	C
ATOM	15442	HCA	PRO	B	273	13.799	82.529	173.847	0.00	0.00	H
ATOM	15443	HCB	PRO	B	273	14.449	85.040	172.860	0.00	0.00	H
ATOM	15444	HCB	PRO	B	273	12.871	84.599	173.543	0.00	0.00	H
ATOM	15445	HCD	PRO	B	273	14.595	84.964	176.990	0.00	0.00	H
ATOM	15446	HCD	PRO	B	273	12.919	84.644	176.457	0.00	0.00	H
ATOM	15447	HCG	PRO	B	273	15.193	85.974	174.948	0.00	0.00	H
ATOM	15448	HCG	PRO	B	273	13.465	86.421	174.974	0.00	0.00	H
ATOM	15449	N	ILE	B	274	15.994	82.242	172.689	0.00	0.00	N
ATOM	15450	CA	ILE	B	274	17.219	81.993	171.973	0.00	0.00	C
ATOM	15451	C	ILE	B	274	17.264	82.928	170.814	0.00	0.00	C
ATOM	15452	O	ILE	B	274	16.347	82.895	169.959	0.00	0.00	O
ATOM	15453	CB	ILE	B	274	17.315	80.498	171.504	0.00	0.00	C
ATOM	15454	CG1	ILE	B	274	17.178	79.455	172.662	0.00	0.00	C
ATOM	15455	CG2	ILE	B	274	18.588	80.231	170.643	0.00	0.00	C
ATOM	15456	CD1	ILE	B	274	18.335	79.416	173.688	0.00	0.00	C
ATOM	15457	HN	ILE	B	274	15.205	81.837	172.329	0.00	0.00	H
ATOM	15458	HCA	ILE	B	274	18.082	82.189	172.616	0.00	0.00	H
ATOM	15459	HCB	ILE	B	274	16.460	80.316	170.845	0.00	0.00	H
ATOM	15460	HCD1	ILE	B	274	19.280	79.189	173.195	0.00	0.00	H
ATOM	15461	HCD1	ILE	B	274	18.423	80.368	174.212	0.00	0.00	H
ATOM	15462	HCD1	ILE	B	274	18.145	78.633	174.424	0.00	0.00	H
ATOM	15463	HCG1	ILE	B	274	16.251	79.648	173.204	0.00	0.00	H
ATOM	15464	HCG1	ILE	B	274	17.082	78.457	172.225	0.00	0.00	H
ATOM	15465	HCG2	ILE	B	274	18.549	80.788	169.705	0.00	0.00	H
ATOM	15466	HCG2	ILE	B	274	19.492	80.524	171.179	0.00	0.00	H
ATOM	15467	HCG2	ILE	B	274	18.663	79.176	170.389	0.00	0.00	H
ATOM	15468	N	THR	B	275	18.311	83.771	170.667	0.00	0.00	N
ATOM	15469	CA	THR	B	275	18.571	84.640	169.547	0.00	0.00	C
ATOM	15470	C	THR	B	275	19.791	84.195	168.833	0.00	0.00	C
ATOM	15471	O	THR	B	275	20.814	83.824	169.465	0.00	0.00	O
ATOM	15472	CB	THR	B	275	18.698	86.149	169.943	0.00	0.00	C
ATOM	15473	CG2	THR	B	275	19.442	86.426	171.270	0.00	0.00	C
ATOM	15474	OG1	THR	B	275	19.366	86.893	168.912	0.00	0.00	O
ATOM	15475	HN	THR	B	275	18.974	83.760	171.374	0.00	0.00	H
ATOM	15476	HCA	THR	B	275	17.744	84.585	168.831	0.00	0.00	H
ATOM	15477	HCB	THR	B	275	17.685	86.554	170.045	0.00	0.00	H
ATOM	15478	HCG2	THR	B	275	20.444	86.003	171.244	0.00	0.00	H
ATOM	15479	HCG2	THR	B	275	19.522	87.501	171.440	0.00	0.00	H
ATOM	15480	HCG2	THR	B	275	18.898	85.990	172.111	0.00	0.00	H
ATOM	15481	HOG1	THR	B	275	19.264	87.835	169.175	0.00	0.00	H
ATOM	15482	N	SER	B	276	19.830	84.327	167.488	0.00	0.00	N
ATOM	15483	CA	SER	B	276	20.993	84.153	166.672	0.00	0.00	C
ATOM	15484	C	SER	B	276	22.152	84.974	167.102	0.00	0.00	C
ATOM	15485	O	SER	B	276	23.303	84.540	166.864	0.00	0.00	O
ATOM	15486	CB	SER	B	276	20.659	84.472	165.196	0.00	0.00	C
ATOM	15487	OG	SER	B	276	19.608	83.624	164.752	0.00	0.00	O
ATOM	15488	HN	SER	B	276	19.012	84.563	167.042	0.00	0.00	H
ATOM	15489	HCA	SER	B	276	21.265	83.098	166.736	0.00	0.00	H
ATOM	15490	HCB	SER	B	276	20.348	85.516	165.083	0.00	0.00	H
ATOM	15491	HCB	SER	B	276	21.530	84.303	164.561	0.00	0.00	H
ATOM	15492	HOG	SER	B	276	18.822	84.012	165.171	0.00	0.00	H
ATOM	15493	N	GLU	B	277	21.987	86.127	167.796	0.00	0.00	N
ATOM	15494	CA	GLU	B	277	23.065	86.942	168.282	0.00	0.00	C
ATOM	15495	C	GLU	B	277	23.688	86.338	169.493	0.00	0.00	C
ATOM	15496	O	GLU	B	277	24.911	86.500	169.711	0.00	0.00	O
ATOM	15497	CB	GLU	B	277	22.557	88.385	168.569	0.00	0.00	C
ATOM	15498	CG	GLU	B	277	21.926	89.116	167.343	0.00	0.00	C
ATOM	15499	CD	GLU	B	277	22.828	89.451	166.223	0.00	0.00	C
ATOM	15500	OE1	GLU	B	277	24.058	89.227	166.240	0.00	0.00	O
ATOM	15501	OE2	GLU	B	277	22.361	90.002	165.204	0.00	0.00	O
ATOM	15502	HN	GLU	B	277	21.096	86.379	168.059	0.00	0.00	H
ATOM	15503	HCA	GLU	B	277	23.833	87.009	167.507	0.00	0.00	H
ATOM	15504	HCB	GLU	B	277	21.808	88.343	169.365	0.00	0.00	H
ATOM	15505	HCB	GLU	B	277	23.389	88.991	168.941	0.00	0.00	H
ATOM	15506	HCG	GLU	B	277	21.109	88.513	166.944	0.00	0.00	H
ATOM	15507	HCG	GLU	B	277	21.495	90.056	167.693	0.00	0.00	H
ATOM	15508	N	GLY	B	278	22.968	85.532	170.309	0.00	0.00	N
ATOM	15509	CA	GLY	B	278	23.438	84.859	171.478	0.00	0.00	C
ATOM	15510	C	GLY	B	278	24.175	83.651	171.071	0.00	0.00	C
ATOM	15511	O	GLY	B	278	25.283	83.404	171.597	0.00	0.00	O
ATOM	15512	HN	GLY	B	278	22.111	85.236	169.999	0.00	0.00	H
ATOM	15513	HCA	GLY	B	278	24.059	85.518	172.092	0.00	0.00	H
ATOM	15514	HCA	GLY	B	278	22.578	84.550	172.073	0.00	0.00	H
ATOM	15515	N	VAL	B	279	23.670	82.883	170.075	0.00	0.00	N
ATOM	15516	CA	VAL	B	279	24.391	81.826	169.405	0.00	0.00	C
ATOM	15517	C	VAL	B	279	25.678	82.349	168.841	0.00	0.00	C
ATOM	15518	O	VAL	B	279	26.753	81.778	169.158	0.00	0.00	O

ATOM	15519	CB	VAL	B	279	23.491	81.141	168.324	0.00	0.00	C
ATOM	15520	CG1	VAL	B	279	24.243	80.040	167.523	0.00	0.00	C
ATOM	15521	CG2	VAL	B	279	22.199	80.523	168.934	0.00	0.00	C
ATOM	15522	HN	VAL	B	279	22.777	83.112	169.785	0.00	0.00	H
ATOM	15523	HCA	VAL	B	279	24.629	81.064	170.154	0.00	0.00	H
ATOM	15524	HCB	VAL	B	279	23.184	81.908	167.611	0.00	0.00	H
ATOM	15525	HCG1	VAL	B	279	24.574	79.236	168.184	0.00	0.00	H
ATOM	15526	HCG1	VAL	B	279	23.586	79.621	166.762	0.00	0.00	H
ATOM	15527	HCG1	VAL	B	279	25.114	80.449	167.009	0.00	0.00	H
ATOM	15528	HCG2	VAL	B	279	22.447	79.726	169.638	0.00	0.00	H
ATOM	15529	HCG2	VAL	B	279	21.614	81.276	169.462	0.00	0.00	H
ATOM	15530	HCG2	VAL	B	279	21.565	80.109	168.147	0.00	0.00	H
ATOM	15531	N	LYS	B	280	25.706	83.447	168.037	0.00	0.00	N
ATOM	15532	CA	LYS	B	280	26.896	84.105	167.561	0.00	0.00	C
ATOM	15533	C	LYS	B	280	27.856	84.395	168.664	0.00	0.00	C
ATOM	15534	O	LYS	B	280	28.988	83.854	168.618	0.00	0.00	O
ATOM	15535	CB	LYS	B	280	26.537	85.397	166.768	0.00	0.00	C
ATOM	15536	CG	LYS	B	280	27.704	86.006	165.930	0.00	0.00	C
ATOM	15537	CD	LYS	B	280	27.531	87.534	165.698	0.00	0.00	C
ATOM	15538	CE	LYS	B	280	28.525	88.154	164.685	0.00	0.00	C
ATOM	15539	NZ	LYS	B	280	28.179	87.839	163.293	0.00	0.00	N
ATOM	15540	HN	LYS	B	280	24.872	83.802	167.729	0.00	0.00	H
ATOM	15541	HNZ	LYS	B	280	27.182	87.640	163.214	0.00	0.00	H
ATOM	15542	HNZ	LYS	B	280	28.405	88.642	162.703	0.00	0.00	H
ATOM	15543	HNZ	LYS	B	280	28.709	87.054	162.956	0.00	0.00	H
ATOM	15544	HCA	LYS	B	280	27.359	83.417	166.855	0.00	0.00	H
ATOM	15545	HCB	LYS	B	280	25.720	85.169	166.081	0.00	0.00	H
ATOM	15546	HCB	LYS	B	280	26.164	86.143	167.471	0.00	0.00	H
ATOM	15547	HCD	LYS	B	280	26.513	87.755	165.372	0.00	0.00	H
ATOM	15548	HCD	LYS	B	280	27.672	88.037	166.660	0.00	0.00	H
ATOM	15549	HCE	LYS	B	280	28.493	89.241	164.792	0.00	0.00	H
ATOM	15550	HCE	LYS	B	280	29.546	87.825	164.892	0.00	0.00	H
ATOM	15551	HCG	LYS	B	280	28.656	85.849	166.442	0.00	0.00	H
ATOM	15552	HCG	LYS	B	280	27.757	85.489	164.970	0.00	0.00	H
ATOM	15553	N	ASP	B	281	27.508	85.175	169.722	0.00	0.00	N
ATOM	15554	CA	ASP	B	281	28.356	85.444	170.853	0.00	0.00	C
ATOM	15555	C	ASP	B	281	28.916	84.197	171.453	0.00	0.00	C
ATOM	15556	O	ASP	B	281	30.158	84.099	171.565	0.00	0.00	O
ATOM	15557	CB	ASP	B	281	27.611	86.288	171.929	0.00	0.00	C
ATOM	15558	CG	ASP	B	281	27.353	87.684	171.535	0.00	0.00	C
ATOM	15559	OD1	ASP	B	281	28.285	88.426	171.157	0.00	0.00	O
ATOM	15560	OD2	ASP	B	281	26.217	88.192	171.637	0.00	0.00	O
ATOM	15561	HN	ASP	B	281	26.642	85.592	169.711	0.00	0.00	H
ATOM	15562	HCA	ASP	B	281	29.198	86.041	170.486	0.00	0.00	H
ATOM	15563	HCB	ASP	B	281	26.670	85.803	172.195	0.00	0.00	H
ATOM	15564	HCB	ASP	B	281	28.221	86.340	172.831	0.00	0.00	H
ATOM	15565	N	LEU	B	282	28.131	83.155	171.816	0.00	0.00	N
ATOM	15566	CA	LEU	B	282	28.590	81.889	172.326	0.00	0.00	C
ATOM	15567	C	LEU	B	282	29.644	81.265	171.475	0.00	0.00	C
ATOM	15568	O	LEU	B	282	30.747	80.974	172.003	0.00	0.00	O
ATOM	15569	CB	LEU	B	282	27.359	80.948	172.513	0.00	0.00	C
ATOM	15570	CG	LEU	B	282	27.661	79.446	172.825	0.00	0.00	C
ATOM	15571	CD1	LEU	B	282	28.407	79.245	174.169	0.00	0.00	C
ATOM	15572	CD2	LEU	B	282	26.355	78.614	172.797	0.00	0.00	C
ATOM	15573	HN	LEU	B	282	27.187	83.266	171.722	0.00	0.00	H
ATOM	15574	HCA	LEU	B	282	29.011	82.079	173.318	0.00	0.00	H
ATOM	15575	HCB	LEU	B	282	26.726	81.356	173.307	0.00	0.00	H
ATOM	15576	HCB	LEU	B	282	26.772	80.980	171.594	0.00	0.00	H
ATOM	15577	HCD1	LEU	B	282	29.361	79.772	174.165	0.00	0.00	H
ATOM	15578	HCD1	LEU	B	282	27.806	79.613	175.003	0.00	0.00	H
ATOM	15579	HCD1	LEU	B	282	28.617	78.185	174.325	0.00	0.00	H
ATOM	15580	HCD2	LEU	B	282	25.814	78.773	171.861	0.00	0.00	H
ATOM	15581	HCD2	LEU	B	282	26.600	77.555	172.860	0.00	0.00	H
ATOM	15582	HCD2	LEU	B	282	25.701	78.882	173.629	0.00	0.00	H
ATOM	15583	HCG	LEU	B	282	28.295	79.042	172.029	0.00	0.00	H
ATOM	15584	N	VAL	B	283	29.425	80.983	170.167	0.00	0.00	N
ATOM	15585	CA	VAL	B	283	30.393	80.306	169.334	0.00	0.00	C
ATOM	15586	C	VAL	B	283	31.612	81.135	169.082	0.00	0.00	C
ATOM	15587	O	VAL	B	283	32.743	80.583	169.094	0.00	0.00	O
ATOM	15588	CB	VAL	B	283	29.766	79.681	168.043	0.00	0.00	C
ATOM	15589	CG1	VAL	B	283	28.560	78.754	168.373	0.00	0.00	C
ATOM	15590	CG2	VAL	B	283	29.359	80.723	166.976	0.00	0.00	C
ATOM	15591	HN	VAL	B	283	28.573	81.242	169.797	0.00	0.00	H
ATOM	15592	HCA	VAL	B	283	30.734	79.442	169.916	0.00	0.00	H
ATOM	15593	HCB	VAL	B	283	30.532	79.048	167.579	0.00	0.00	H
ATOM	15594	HCG1	VAL	B	283	27.749	79.312	168.842	0.00	0.00	H
ATOM	15595	HCG1	VAL	B	283	28.170	78.300	167.461	0.00	0.00	H
ATOM	15596	HCG1	VAL	B	283	28.866	77.956	169.052	0.00	0.00	H
ATOM	15597	HCG2	VAL	B	283	30.222	81.315	166.671	0.00	0.00	H
ATOM	15598	HCG2	VAL	B	283	28.964	80.225	166.087	0.00	0.00	H

ATOM	15599	HCG2	VAL	B	283	28.597	81.390	167.369	0.00	0.00	H
ATOM	15600	N	VAL	B	284	31.536	82.480	168.909	0.00	0.00	N
ATOM	15601	CA	VAL	B	284	32.668	83.372	168.832	0.00	0.00	C
ATOM	15602	C	VAL	B	284	33.483	83.304	170.083	0.00	0.00	C
ATOM	15603	O	VAL	B	284	34.721	83.130	169.995	0.00	0.00	O
ATOM	15604	CB	VAL	B	284	32.203	84.825	168.463	0.00	0.00	C
ATOM	15605	CG1	VAL	B	284	33.327	85.893	168.598	0.00	0.00	C
ATOM	15606	CG2	VAL	B	284	31.641	84.886	167.012	0.00	0.00	C
ATOM	15607	HN	VAL	B	284	30.666	82.882	168.851	0.00	0.00	H
ATOM	15608	HCA	VAL	B	284	33.293	83.026	168.005	0.00	0.00	H
ATOM	15609	HCB	VAL	B	284	31.400	85.112	169.149	0.00	0.00	H
ATOM	15610	HCG1	VAL	B	284	34.191	85.624	167.986	0.00	0.00	H
ATOM	15611	HCG1	VAL	B	284	32.968	86.874	168.280	0.00	0.00	H
ATOM	15612	HCG1	VAL	B	284	33.651	85.986	169.636	0.00	0.00	H
ATOM	15613	HCG2	VAL	B	284	30.861	84.140	166.861	0.00	0.00	H
ATOM	15614	HCG2	VAL	B	284	31.211	85.869	166.811	0.00	0.00	H
ATOM	15615	HCG2	VAL	B	284	32.433	84.699	166.282	0.00	0.00	H
ATOM	15616	N	ARG	B	285	32.921	83.398	171.310	0.00	0.00	N
ATOM	15617	CA	ARG	B	285	33.613	83.239	172.559	0.00	0.00	C
ATOM	15618	C	ARG	B	285	34.266	81.902	172.690	0.00	0.00	C
ATOM	15619	O	ARG	B	285	35.503	81.857	172.899	0.00	0.00	O
ATOM	15620	CB	ARG	B	285	32.628	83.480	173.744	0.00	0.00	C
ATOM	15621	CG	ARG	B	285	32.153	84.955	173.897	0.00	0.00	C
ATOM	15622	CD	ARG	B	285	30.922	85.076	174.829	0.00	0.00	C
ATOM	15623	NE	ARG	B	285	30.461	86.424	174.874	0.00	0.00	N
ATOM	15624	CZ	ARG	B	285	29.392	86.852	175.552	0.00	0.00	C
ATOM	15625	NH1	ARG	B	285	28.622	86.067	176.291	0.00	0.00	N
ATOM	15626	NH2	ARG	B	285	29.070	88.131	175.484	0.00	0.00	N
ATOM	15627	HN	ARG	B	285	31.986	83.594	171.354	0.00	0.00	H
ATOM	15628	HNE	ARG	B	285	30.952	87.089	174.372	0.00	0.00	H
ATOM	15629	HNH1	ARG	B	285	28.825	85.127	176.364	0.00	0.00	H
ATOM	15630	HNH1	ARG	B	285	27.861	86.437	176.756	0.00	0.00	H
ATOM	15631	HNH2	ARG	B	285	29.602	88.734	174.951	0.00	0.00	H
ATOM	15632	HNH2	ARG	B	285	28.302	88.459	175.967	0.00	0.00	H
ATOM	15633	HCA	ARG	B	285	34.389	84.011	172.615	0.00	0.00	H
ATOM	15634	HCB	ARG	B	285	31.761	82.828	173.611	0.00	0.00	H
ATOM	15635	HCB	ARG	B	285	33.110	83.189	174.683	0.00	0.00	H
ATOM	15636	HCD	ARG	B	285	30.118	84.435	174.452	0.00	0.00	H
ATOM	15637	HCD	ARG	B	285	31.194	84.742	175.835	0.00	0.00	H
ATOM	15638	HCG	ARG	B	285	32.972	85.555	174.304	0.00	0.00	H
ATOM	15639	HCG	ARG	B	285	31.897	85.371	172.921	0.00	0.00	H
ATOM	15640	N	ARG	B	286	33.551	80.749	172.635	0.00	0.00	N
ATOM	15641	CA	ARG	B	286	34.067	79.445	172.976	0.00	0.00	C
ATOM	15642	C	ARG	B	286	34.856	78.779	171.893	0.00	0.00	C
ATOM	15643	O	ARG	B	286	35.747	77.980	172.269	0.00	0.00	O
ATOM	15644	CB	ARG	B	286	32.930	78.555	173.577	0.00	0.00	C
ATOM	15645	CG	ARG	B	286	33.440	77.443	174.554	0.00	0.00	C
ATOM	15646	CD	ARG	B	286	32.355	76.598	175.279	0.00	0.00	C
ATOM	15647	NE	ARG	B	286	31.445	77.429	175.994	0.00	0.00	N
ATOM	15648	CZ	ARG	B	286	30.457	77.028	176.797	0.00	0.00	C
ATOM	15649	NH1	ARG	B	286	30.174	75.783	177.156	0.00	0.00	N
ATOM	15650	NH2	ARG	B	286	29.673	77.967	177.300	0.00	0.00	N
ATOM	15651	HN	ARG	B	286	32.623	80.821	172.404	0.00	0.00	H
ATOM	15652	HNE	ARG	B	286	31.526	78.382	175.870	0.00	0.00	H
ATOM	15653	HNH1	ARG	B	286	30.691	75.021	176.886	0.00	0.00	H
ATOM	15654	HNH1	ARG	B	286	29.418	75.635	177.734	0.00	0.00	H
ATOM	15655	HNH2	ARG	B	286	29.825	78.892	177.076	0.00	0.00	H
ATOM	15656	HNH2	ARG	B	286	28.949	77.725	177.890	0.00	0.00	H
ATOM	15657	HCA	ARG	B	286	34.771	79.614	173.800	0.00	0.00	H
ATOM	15658	HCB	ARG	B	286	32.246	79.203	174.130	0.00	0.00	H
ATOM	15659	HCB	ARG	B	286	32.356	78.103	172.768	0.00	0.00	H
ATOM	15660	HCD	ARG	B	286	31.810	75.997	174.553	0.00	0.00	H
ATOM	15661	HCD	ARG	B	286	32.851	75.914	175.975	0.00	0.00	H
ATOM	15662	HCG	ARG	B	286	34.079	76.753	173.997	0.00	0.00	H
ATOM	15663	HCG	ARG	B	286	34.059	77.909	175.326	0.00	0.00	H
ATOM	15664	N	LEU	B	287	34.693	79.006	170.560	0.00	0.00	N
ATOM	15665	CA	LEU	B	287	35.529	78.474	169.508	0.00	0.00	C
ATOM	15666	C	LEU	B	287	36.258	79.588	168.842	0.00	0.00	C
ATOM	15667	O	LEU	B	287	37.507	79.528	168.742	0.00	0.00	O
ATOM	15668	CB	LEU	B	287	34.736	77.683	168.420	0.00	0.00	C
ATOM	15669	CG	LEU	B	287	33.921	76.426	168.850	0.00	0.00	C
ATOM	15670	CD1	LEU	B	287	34.731	75.407	169.692	0.00	0.00	C
ATOM	15671	CD2	LEU	B	287	32.584	76.793	169.530	0.00	0.00	C
ATOM	15672	HN	LEU	B	287	33.987	79.577	170.251	0.00	0.00	H
ATOM	15673	HCA	LEU	B	287	36.282	77.789	169.909	0.00	0.00	H
ATOM	15674	HCB	LEU	B	287	34.062	78.364	167.892	0.00	0.00	H
ATOM	15675	HCB	LEU	B	287	35.468	77.343	167.681	0.00	0.00	H
ATOM	15676	HCD1	LEU	B	287	35.661	75.150	169.180	0.00	0.00	H
ATOM	15677	HCD1	LEU	B	287	34.972	75.814	170.674	0.00	0.00	H
ATOM	15678	HCD1	LEU	B	287	34.153	74.492	169.834	0.00	0.00	H

ATOM	15679	HCD2	LEU	B	287	32.045	77.538	168.946	0.00	0.00	H
ATOM	15680	HCD2	LEU	B	287	31.957	75.909	169.595	0.00	0.00	H
ATOM	15681	HCD2	LEU	B	287	32.747	77.180	170.534	0.00	0.00	H
ATOM	15682	HCG	LEU	B	287	33.646	75.906	167.928	0.00	0.00	H
ATOM	15683	N	GLY	B	288	35.573	80.632	168.313	0.00	0.00	N
ATOM	15684	CA	GLY	B	288	36.166	81.688	167.538	0.00	0.00	C
ATOM	15685	C	GLY	B	288	36.236	81.410	166.089	0.00	0.00	C
ATOM	15686	O	GLY	B	288	37.361	81.274	165.555	0.00	0.00	O
ATOM	15687	HN	GLY	B	288	34.628	80.647	168.490	0.00	0.00	H
ATOM	15688	HCA	GLY	B	288	35.587	82.599	167.663	0.00	0.00	H
ATOM	15689	HCA	GLY	B	288	37.167	81.917	167.917	0.00	0.00	H
ATOM	15690	N	TYR	B	289	35.103	81.384	165.347	0.00	0.00	N
ATOM	15691	CA	TYR	B	289	35.037	81.356	163.906	0.00	0.00	C
ATOM	15692	C	TYR	B	289	34.503	82.648	163.385	0.00	0.00	C
ATOM	15693	O	TYR	B	289	33.808	83.391	164.120	0.00	0.00	O
ATOM	15694	CB	TYR	B	289	34.157	80.173	163.391	0.00	0.00	C
ATOM	15695	CG	TYR	B	289	34.407	78.839	164.008	0.00	0.00	C
ATOM	15696	CD1	TYR	B	289	35.701	78.267	164.014	0.00	0.00	C
ATOM	15697	CD2	TYR	B	289	33.341	78.095	164.571	0.00	0.00	C
ATOM	15698	CE1	TYR	B	289	35.924	76.996	164.576	0.00	0.00	C
ATOM	15699	CE2	TYR	B	289	33.560	76.817	165.116	0.00	0.00	C
ATOM	15700	CZ	TYR	B	289	34.854	76.265	165.122	0.00	0.00	C
ATOM	15701	OH	TYR	B	289	35.074	75.037	165.646	0.00	0.00	O
ATOM	15702	HN	TYR	B	289	34.263	81.448	165.827	0.00	0.00	H
ATOM	15703	HCA	TYR	B	289	36.039	81.238	163.481	0.00	0.00	H
ATOM	15704	HCB	TYR	B	289	33.104	80.441	163.519	0.00	0.00	H
ATOM	15705	HCB	TYR	B	289	34.322	80.065	162.316	0.00	0.00	H
ATOM	15706	HCD1	TYR	B	289	36.492	78.774	163.609	0.00	0.00	H
ATOM	15707	HCD2	TYR	B	289	32.391	78.476	164.583	0.00	0.00	H
ATOM	15708	HCE1	TYR	B	289	36.867	76.599	164.584	0.00	0.00	H
ATOM	15709	HCE2	TYR	B	289	32.777	76.293	165.510	0.00	0.00	H
ATOM	15710	HOH	TYR	B	289	34.342	74.517	166.039	0.00	0.00	H
ATOM	15711	N	ASP	B	290	34.698	82.988	162.091	0.00	0.00	N
ATOM	15712	CA	ASP	B	290	34.194	84.121	161.360	0.00	0.00	C
ATOM	15713	C	ASP	B	290	32.729	84.413	161.497	0.00	0.00	C
ATOM	15714	O	ASP	B	290	32.298	85.540	161.162	0.00	0.00	O
ATOM	15715	CB	ASP	B	290	34.513	83.827	159.861	0.00	0.00	C
ATOM	15716	CG	ASP	B	290	35.912	83.507	159.518	0.00	0.00	C
ATOM	15717	OD1	ASP	B	290	36.559	84.271	158.767	0.00	0.00	O
ATOM	15718	OD2	ASP	B	290	36.439	82.439	159.911	0.00	0.00	O
ATOM	15719	HN	ASP	B	290	35.307	82.466	161.560	0.00	0.00	H
ATOM	15720	HCA	ASP	B	290	34.754	85.003	161.683	0.00	0.00	H
ATOM	15721	HCB	ASP	B	290	33.929	82.963	159.558	0.00	0.00	H
ATOM	15722	HCB	ASP	B	290	34.194	84.675	159.254	0.00	0.00	H
ATOM	15723	N	THR	B	291	31.902	83.440	161.938	0.00	0.00	N
ATOM	15724	CA	THR	B	291	30.488	83.424	162.211	0.00	0.00	C
ATOM	15725	C	THR	B	291	29.620	84.522	161.688	0.00	0.00	C
ATOM	15726	O	THR	B	291	29.722	85.684	162.148	0.00	0.00	O
ATOM	15727	CB	THR	B	291	30.252	83.225	163.738	0.00	0.00	C
ATOM	15728	CG2	THR	B	291	28.826	82.714	164.049	0.00	0.00	C
ATOM	15729	OG1	THR	B	291	31.158	82.266	164.288	0.00	0.00	O
ATOM	15730	HN	THR	B	291	32.357	82.608	162.127	0.00	0.00	H
ATOM	15731	HCA	THR	B	291	30.172	82.499	161.732	0.00	0.00	H
ATOM	15732	HCB	THR	B	291	30.415	84.173	164.260	0.00	0.00	H
ATOM	15733	HCG2	THR	B	291	28.680	81.713	163.638	0.00	0.00	H
ATOM	15734	HCG2	THR	B	291	28.689	82.671	165.123	0.00	0.00	H
ATOM	15735	HCG2	THR	B	291	28.065	83.377	163.637	0.00	0.00	H
ATOM	15736	HOG1	THR	B	291	32.037	82.671	164.235	0.00	0.00	H
ATOM	15737	N	ARG	B	292	28.654	84.237	160.784	0.00	0.00	N
ATOM	15738	CA	ARG	B	292	27.781	85.158	160.105	0.00	0.00	C
ATOM	15739	C	ARG	B	292	26.346	84.953	160.482	0.00	0.00	C
ATOM	15740	O	ARG	B	292	25.890	83.790	160.600	0.00	0.00	O
ATOM	15741	CB	ARG	B	292	27.997	84.994	158.570	0.00	0.00	C
ATOM	15742	CG	ARG	B	292	29.456	85.190	158.044	0.00	0.00	C
ATOM	15743	CD	ARG	B	292	30.120	86.541	158.421	0.00	0.00	C
ATOM	15744	NE	ARG	B	292	31.153	86.911	157.504	0.00	0.00	N
ATOM	15745	CZ	ARG	B	292	32.420	87.244	157.760	0.00	0.00	C
ATOM	15746	NH1	ARG	B	292	33.073	87.137	158.906	0.00	0.00	N
ATOM	15747	NH2	ARG	B	292	33.061	87.747	156.718	0.00	0.00	N
ATOM	15748	HN	ARG	B	292	28.555	83.308	160.576	0.00	0.00	H
ATOM	15749	HNE	ARG	B	292	30.919	87.033	156.585	0.00	0.00	H
ATOM	15750	HNH1	ARG	B	292	32.703	86.672	159.655	0.00	0.00	H
ATOM	15751	HNH1	ARG	B	292	33.966	87.493	158.974	0.00	0.00	H
ATOM	15752	HNH2	ARG	B	292	32.558	87.756	155.903	0.00	0.00	H
ATOM	15753	HNH2	ARG	B	292	33.937	88.130	156.786	0.00	0.00	H
ATOM	15754	HCA	ARG	B	292	28.042	86.188	160.362	0.00	0.00	H
ATOM	15755	HCB	ARG	B	292	27.669	83.992	158.277	0.00	0.00	H
ATOM	15756	HCB	ARG	B	292	27.349	85.707	158.049	0.00	0.00	H
ATOM	15757	HCD	ARG	B	292	29.367	87.332	158.372	0.00	0.00	H
ATOM	15758	HCD	ARG	B	292	30.482	86.498	159.451	0.00	0.00	H

ATOM	15759	HCG	ARG	B	292	30.088	84.375	158.406	0.00	0.00	H
ATOM	15760	HCG	ARG	B	292	29.414	85.105	156.956	0.00	0.00	H
ATOM	15761	N	VAL	B	293	25.534	86.024	160.674	0.00	0.00	N
ATOM	15762	CA	VAL	B	293	24.136	86.008	161.047	0.00	0.00	C
ATOM	15763	C	VAL	B	293	23.303	86.546	159.934	0.00	0.00	C
ATOM	15764	O	VAL	B	293	23.575	87.682	159.477	0.00	0.00	O
ATOM	15765	CB	VAL	B	293	23.902	86.824	162.369	0.00	0.00	C
ATOM	15766	CG1	VAL	B	293	22.393	87.031	162.712	0.00	0.00	C
ATOM	15767	CG2	VAL	B	293	24.594	86.159	163.589	0.00	0.00	C
ATOM	15768	HN	VAL	B	293	25.927	86.897	160.527	0.00	0.00	H
ATOM	15769	HCA	VAL	B	293	23.816	84.986	161.249	0.00	0.00	H
ATOM	15770	HCB	VAL	B	293	24.344	87.819	162.242	0.00	0.00	H
ATOM	15771	HCG1	VAL	B	293	21.915	87.677	161.974	0.00	0.00	H
ATOM	15772	HCG1	VAL	B	293	21.867	86.075	162.726	0.00	0.00	H
ATOM	15773	HCG1	VAL	B	293	22.274	87.511	163.686	0.00	0.00	H
ATOM	15774	HCG2	VAL	B	293	24.133	85.199	163.820	0.00	0.00	H
ATOM	15775	HCG2	VAL	B	293	25.654	85.995	163.395	0.00	0.00	H
ATOM	15776	HCG2	VAL	B	293	24.496	86.799	164.468	0.00	0.00	H
ATOM	15777	N	THR	B	294	22.218	85.858	159.500	0.00	0.00	N
ATOM	15778	CA	THR	B	294	21.204	86.365	158.590	0.00	0.00	C
ATOM	15779	C	THR	B	294	19.855	86.290	159.213	0.00	0.00	C
ATOM	15780	O	THR	B	294	19.513	85.250	159.830	0.00	0.00	O
ATOM	15781	CB	THR	B	294	21.225	85.596	157.237	0.00	0.00	C
ATOM	15782	CG2	THR	B	294	20.106	85.975	156.234	0.00	0.00	C
ATOM	15783	OG1	THR	B	294	22.471	85.808	156.572	0.00	0.00	O
ATOM	15784	HN	THR	B	294	22.120	84.971	159.868	0.00	0.00	H
ATOM	15785	HCA	THR	B	294	21.397	87.415	158.348	0.00	0.00	H
ATOM	15786	HCB	THR	B	294	21.138	84.531	157.453	0.00	0.00	H
ATOM	15787	HCG2	THR	B	294	20.191	87.017	155.930	0.00	0.00	H
ATOM	15788	HCG2	THR	B	294	20.176	85.339	155.355	0.00	0.00	H
ATOM	15789	HCG2	THR	B	294	19.119	85.824	156.662	0.00	0.00	H
ATOM	15790	HOG1	THR	B	294	22.436	86.703	156.190	0.00	0.00	H
ATOM	15791	N	VAL	B	295	18.973	87.304	159.018	0.00	0.00	N
ATOM	15792	CA	VAL	B	295	17.601	87.332	159.468	0.00	0.00	C
ATOM	15793	C	VAL	B	295	16.741	87.299	158.255	0.00	0.00	C
ATOM	15794	O	VAL	B	295	16.824	88.248	157.439	0.00	0.00	O
ATOM	15795	CB	VAL	B	295	17.333	88.572	160.387	0.00	0.00	C
ATOM	15796	CG1	VAL	B	295	15.850	88.649	160.855	0.00	0.00	C
ATOM	15797	CG2	VAL	B	295	18.265	88.582	161.633	0.00	0.00	C
ATOM	15798	HN	VAL	B	295	19.277	88.053	158.479	0.00	0.00	H
ATOM	15799	HCA	VAL	B	295	17.373	86.441	160.055	0.00	0.00	H
ATOM	15800	HCB	VAL	B	295	17.546	89.480	159.812	0.00	0.00	H
ATOM	15801	HCG1	VAL	B	295	15.177	88.741	160.000	0.00	0.00	H
ATOM	15802	HCG1	VAL	B	295	15.575	87.754	161.419	0.00	0.00	H
ATOM	15803	HCG1	VAL	B	295	15.693	89.522	161.492	0.00	0.00	H
ATOM	15804	HCG2	VAL	B	295	19.313	88.615	161.332	0.00	0.00	H
ATOM	15805	HCG2	VAL	B	295	18.070	89.462	162.251	0.00	0.00	H
ATOM	15806	HCG2	VAL	B	295	18.106	87.690	162.244	0.00	0.00	H
ATOM	15807	N	LEU	B	296	15.914	86.250	158.010	0.00	0.00	N
ATOM	15808	CA	LEU	B	296	15.203	86.037	156.775	0.00	0.00	C
ATOM	15809	C	LEU	B	296	13.876	86.729	156.749	0.00	0.00	C
ATOM	15810	O	LEU	B	296	13.659	87.651	155.922	0.00	0.00	O
ATOM	15811	CB	LEU	B	296	15.114	84.497	156.521	0.00	0.00	C
ATOM	15812	CG	LEU	B	296	16.445	83.822	156.040	0.00	0.00	C
ATOM	15813	CD1	LEU	B	296	17.396	83.446	157.210	0.00	0.00	C
ATOM	15814	CD2	LEU	B	296	16.150	82.558	155.190	0.00	0.00	C
ATOM	15815	HN	LEU	B	296	15.836	85.571	158.690	0.00	0.00	H
ATOM	15816	HCA	LEU	B	296	15.785	86.459	155.948	0.00	0.00	H
ATOM	15817	HCB	LEU	B	296	14.748	83.991	157.418	0.00	0.00	H
ATOM	15818	HCB	LEU	B	296	14.354	84.331	155.760	0.00	0.00	H
ATOM	15819	HCD1	LEU	B	296	17.636	84.314	157.819	0.00	0.00	H
ATOM	15820	HCD1	LEU	B	296	16.941	82.696	157.855	0.00	0.00	H
ATOM	15821	HCD1	LEU	B	296	18.333	83.047	156.818	0.00	0.00	H
ATOM	15822	HCD2	LEU	B	296	15.574	82.820	154.302	0.00	0.00	H
ATOM	15823	HCD2	LEU	B	296	17.078	82.085	154.862	0.00	0.00	H
ATOM	15824	HCD2	LEU	B	296	15.574	81.840	155.772	0.00	0.00	H
ATOM	15825	HCG	LEU	B	296	16.982	84.517	155.385	0.00	0.00	H
ATOM	15826	N	GLY	B	297	12.878	86.361	157.585	0.00	0.00	N
ATOM	15827	CA	GLY	B	297	11.604	87.017	157.705	0.00	0.00	C
ATOM	15828	C	GLY	B	297	10.791	87.087	156.467	0.00	0.00	C
ATOM	15829	O	GLY	B	297	10.523	86.022	155.859	0.00	0.00	O
ATOM	15830	HN	GLY	B	297	13.050	85.599	158.160	0.00	0.00	H
ATOM	15831	HCA	GLY	B	297	11.023	86.466	158.445	0.00	0.00	H
ATOM	15832	HCA	GLY	B	297	11.768	88.021	158.104	0.00	0.00	H
ATOM	15833	N	HSE	B	298	10.339	88.280	155.990	0.00	0.00	N
ATOM	15834	CA	HSE	B	298	9.452	88.429	154.855	0.00	0.00	C
ATOM	15835	C	HSE	B	298	9.965	87.821	153.589	0.00	0.00	C
ATOM	15836	O	HSE	B	298	9.113	87.534	152.716	0.00	0.00	O
ATOM	15837	CB	HSE	B	298	9.047	89.926	154.677	0.00	0.00	C
ATOM	15838	CG	HSE	B	298	8.008	90.216	153.660	0.00	0.00	C

ATOM	15839	CD2	HSE	B	298	8.296	90.619	152.371	0.00	0.00	C
ATOM	15840	ND1	HSE	B	298	6.664	90.212	153.781	0.00	0.00	N
ATOM	15841	CE1	HSE	B	298	6.169	90.567	152.573	0.00	0.00	C
ATOM	15842	NE2	HSE	B	298	7.159	90.821	151.707	0.00	0.00	N
ATOM	15843	HN	HSE	B	298	10.658	89.079	156.435	0.00	0.00	H
ATOM	15844	HNE2	HSE	B	298	7.087	91.107	150.788	0.00	0.00	H
ATOM	15845	HCA	HSE	B	298	8.541	87.881	155.115	0.00	0.00	H
ATOM	15846	HCB	HSE	B	298	8.661	90.327	155.607	0.00	0.00	H
ATOM	15847	HCB	HSE	B	298	9.949	90.497	154.439	0.00	0.00	H
ATOM	15848	HCD2	HSE	B	298	9.228	90.745	152.017	0.00	0.00	H
ATOM	15849	HCE1	HSE	B	298	5.178	90.652	152.351	0.00	0.00	H
ATOM	15850	N	VAL	B	299	11.259	87.456	153.376	0.00	0.00	N
ATOM	15851	CA	VAL	B	299	11.698	86.721	152.203	0.00	0.00	C
ATOM	15852	C	VAL	B	299	10.941	85.446	152.064	0.00	0.00	C
ATOM	15853	O	VAL	B	299	10.560	85.048	150.936	0.00	0.00	O
ATOM	15854	CB	VAL	B	299	13.244	86.453	152.161	0.00	0.00	C
ATOM	15855	CG1	VAL	B	299	14.072	87.757	152.283	0.00	0.00	C
ATOM	15856	CG2	VAL	B	299	13.727	85.420	153.210	0.00	0.00	C
ATOM	15857	HN	VAL	B	299	11.912	87.636	154.070	0.00	0.00	H
ATOM	15858	HCA	VAL	B	299	11.460	87.335	151.328	0.00	0.00	H
ATOM	15859	HCB	VAL	B	299	13.478	86.032	151.175	0.00	0.00	H
ATOM	15860	HCG1	VAL	B	299	13.903	88.248	153.242	0.00	0.00	H
ATOM	15861	HCG1	VAL	B	299	15.140	87.551	152.182	0.00	0.00	H
ATOM	15862	HCG1	VAL	B	299	13.787	88.434	151.485	0.00	0.00	H
ATOM	15863	HCG2	VAL	B	299	13.391	84.416	152.944	0.00	0.00	H
ATOM	15864	HCG2	VAL	B	299	14.817	85.396	153.275	0.00	0.00	H
ATOM	15865	HCG2	VAL	B	299	13.321	85.680	154.183	0.00	0.00	H
ATOM	15866	N	GLN	B	300	10.574	84.769	153.179	0.00	0.00	N
ATOM	15867	CA	GLN	B	300	9.896	83.508	153.192	0.00	0.00	C
ATOM	15868	C	GLN	B	300	8.499	83.641	152.790	0.00	0.00	C
ATOM	15869	O	GLN	B	300	7.865	82.627	152.531	0.00	0.00	O
ATOM	15870	CB	GLN	B	300	10.064	82.871	154.603	0.00	0.00	C
ATOM	15871	CG	GLN	B	300	11.554	82.737	155.031	0.00	0.00	C
ATOM	15872	CD	GLN	B	300	11.736	82.105	156.344	0.00	0.00	C
ATOM	15873	NE2	GLN	B	300	11.517	80.803	156.527	0.00	0.00	N
ATOM	15874	OE1	GLN	B	300	12.112	82.766	157.333	0.00	0.00	O
ATOM	15875	HN	GLN	B	300	10.696	85.194	154.034	0.00	0.00	H
ATOM	15876	HNE2	GLN	B	300	11.234	80.247	155.788	0.00	0.00	H
ATOM	15877	HNE2	GLN	B	300	11.630	80.422	157.408	0.00	0.00	H
ATOM	15878	HCA	GLN	B	300	10.385	82.848	152.469	0.00	0.00	H
ATOM	15879	HCB	GLN	B	300	9.529	83.476	155.343	0.00	0.00	H
ATOM	15880	HCB	GLN	B	300	9.609	81.878	154.598	0.00	0.00	H
ATOM	15881	HCG	GLN	B	300	12.107	82.164	154.286	0.00	0.00	H
ATOM	15882	HCG	GLN	B	300	12.000	83.730	155.081	0.00	0.00	H
ATOM	15883	N	ARG	B	301	7.939	84.828	152.627	0.00	0.00	N
ATOM	15884	CA	ARG	B	301	6.614	85.081	152.160	0.00	0.00	C
ATOM	15885	C	ARG	B	301	6.645	85.438	150.722	0.00	0.00	C
ATOM	15886	O	ARG	B	301	5.545	85.625	150.155	0.00	0.00	O
ATOM	15887	CB	ARG	B	301	6.004	86.217	153.025	0.00	0.00	C
ATOM	15888	CG	ARG	B	301	5.864	85.833	154.521	0.00	0.00	C
ATOM	15889	CD	ARG	B	301	5.342	87.008	155.370	0.00	0.00	C
ATOM	15890	NE	ARG	B	301	5.022	86.542	156.677	0.00	0.00	N
ATOM	15891	CZ	ARG	B	301	3.809	86.154	157.073	0.00	0.00	C
ATOM	15892	NH1	ARG	B	301	2.776	85.947	156.266	0.00	0.00	N
ATOM	15893	NH2	ARG	B	301	3.644	85.943	158.368	0.00	0.00	N
ATOM	15894	HN	ARG	B	301	8.459	85.625	152.759	0.00	0.00	H
ATOM	15895	HNE	ARG	B	301	5.735	86.428	157.314	0.00	0.00	H
ATOM	15896	HNH1	ARG	B	301	2.831	86.055	155.314	0.00	0.00	H
ATOM	15897	HNH1	ARG	B	301	1.929	85.656	156.622	0.00	0.00	H
ATOM	15898	HNH2	ARG	B	301	4.401	86.074	158.950	0.00	0.00	H
ATOM	15899	HNH2	ARG	B	301	2.780	85.659	158.696	0.00	0.00	H
ATOM	15900	HCA	ARG	B	301	5.974	84.202	152.259	0.00	0.00	H
ATOM	15901	HCB	ARG	B	301	6.610	87.121	152.932	0.00	0.00	H
ATOM	15902	HCB	ARG	B	301	5.010	86.452	152.639	0.00	0.00	H
ATOM	15903	HCD	ARG	B	301	6.110	87.780	155.450	0.00	0.00	H
ATOM	15904	HCD	ARG	B	301	4.475	87.465	154.886	0.00	0.00	H
ATOM	15905	HCG	ARG	B	301	5.165	84.997	154.599	0.00	0.00	H
ATOM	15906	HCG	ARG	B	301	6.827	85.509	154.925	0.00	0.00	H
ATOM	15907	N	GLY	B	302	7.791	85.529	150.000	0.00	0.00	N
ATOM	15908	CA	GLY	B	302	7.868	86.069	148.684	0.00	0.00	C
ATOM	15909	C	GLY	B	302	8.047	85.164	147.528	0.00	0.00	C
ATOM	15910	O	GLY	B	302	8.147	83.915	147.634	0.00	0.00	O
ATOM	15911	HN	GLY	B	302	8.634	85.297	150.405	0.00	0.00	H
ATOM	15912	HCA	GLY	B	302	7.019	86.707	148.471	0.00	0.00	H
ATOM	15913	HCA	GLY	B	302	8.720	86.734	148.733	0.00	0.00	H
ATOM	15914	N	GLY	B	303	8.116	85.787	146.330	0.00	0.00	N
ATOM	15915	CA	GLY	B	303	8.558	85.254	145.079	0.00	0.00	C
ATOM	15916	C	GLY	B	303	7.434	84.906	144.204	0.00	0.00	C
ATOM	15917	O	GLY	B	303	6.728	85.801	143.688	0.00	0.00	O
ATOM	15918	HN	GLY	B	303	7.878	86.728	146.342	0.00	0.00	H



ATOM	15919	HCA	GLY	B	303	9.159	85.999	144.557	0.00	0.00		H
ATOM	15920	HCA	GLY	B	303	9.212	84.397	145.232	0.00	0.00		H
ATOM	15921	N	THR	B	304	7.186	83.603	143.988	0.00	0.00		N
ATOM	15922	CA	THR	B	304	6.116	83.069	143.191	0.00	0.00		C
ATOM	15923	C	THR	B	304	5.629	81.826	143.849	0.00	0.00		C
ATOM	15924	O	THR	B	304	6.517	81.048	144.299	0.00	0.00		O
ATOM	15925	CB	THR	B	304	6.521	82.859	141.699	0.00	0.00		C
ATOM	15926	CG2	THR	B	304	7.734	81.926	141.472	0.00	0.00		C
ATOM	15927	OG1	THR	B	304	5.434	82.318	140.946	0.00	0.00		O
ATOM	15928	HN	THR	B	304	7.763	82.992	144.448	0.00	0.00		H
ATOM	15929	HCA	THR	B	304	5.303	83.798	143.182	0.00	0.00		H
ATOM	15930	HCB	THR	B	304	6.769	83.835	141.269	0.00	0.00		H
ATOM	15931	HCG2	THR	B	304	7.506	80.910	141.797	0.00	0.00		H
ATOM	15932	HCG2	THR	B	304	7.979	81.896	140.409	0.00	0.00		H
ATOM	15933	HCG2	THR	B	304	8.607	82.290	142.016	0.00	0.00		H
ATOM	15934	HOG1	THR	B	304	4.754	83.008	140.858	0.00	0.00		H
ATOM	15935	N	PRO	B	305	4.304	81.510	144.018	0.00	0.00		N
ATOM	15936	CA	PRO	B	305	3.876	80.310	144.676	0.00	0.00		C
ATOM	15937	C	PRO	B	305	4.319	79.111	143.984	0.00	0.00		C
ATOM	15938	O	PRO	B	305	4.267	79.063	142.760	0.00	0.00		O
ATOM	15939	CB	PRO	B	305	2.334	80.401	144.781	0.00	0.00		C
ATOM	15940	CG	PRO	B	305	1.949	81.417	143.703	0.00	0.00		C
ATOM	15941	CD	PRO	B	305	3.194	82.310	143.596	0.00	0.00		C
ATOM	15942	HCA	PRO	B	305	4.288	80.326	145.685	0.00	0.00		H
ATOM	15943	HCB	PRO	B	305	1.832	79.443	144.644	0.00	0.00		H
ATOM	15944	HCB	PRO	B	305	2.040	80.780	145.759	0.00	0.00		H
ATOM	15945	HCD	PRO	B	305	3.300	82.647	142.567	0.00	0.00		H
ATOM	15946	HCD	PRO	B	305	3.101	83.174	144.258	0.00	0.00		H
ATOM	15947	HCG	PRO	B	305	1.771	80.909	142.752	0.00	0.00		H
ATOM	15948	HCG	PRO	B	305	1.056	81.987	143.973	0.00	0.00		H
ATOM	15949	N	SER	B	306	4.753	78.095	144.703	0.00	0.00		N
ATOM	15950	CA	SER	B	306	5.145	76.817	144.190	0.00	0.00		C
ATOM	15951	C	SER	B	306	4.024	76.126	143.516	0.00	0.00		C
ATOM	15952	O	SER	B	306	2.832	76.405	143.804	0.00	0.00		O
ATOM	15953	CB	SER	B	306	5.688	75.901	145.315	0.00	0.00		C
ATOM	15954	OG	SER	B	306	4.642	75.351	146.123	0.00	0.00		O
ATOM	15955	HN	SER	B	306	4.759	78.232	145.648	0.00	0.00		H
ATOM	15956	HCA	SER	B	306	5.948	76.982	143.464	0.00	0.00		H
ATOM	15957	HCB	SER	B	306	6.240	75.070	144.869	0.00	0.00		H
ATOM	15958	HCB	SER	B	306	6.384	76.450	145.951	0.00	0.00		H
ATOM	15959	HOG	SER	B	306	5.111	74.642	146.597	0.00	0.00		H
ATOM	15960	N	ALA	B	307	4.294	75.126	142.652	0.00	0.00		N
ATOM	15961	CA	ALA	B	307	3.288	74.341	142.021	0.00	0.00		C
ATOM	15962	C	ALA	B	307	2.450	73.672	143.048	0.00	0.00		C
ATOM	15963	O	ALA	B	307	1.217	73.866	143.017	0.00	0.00		O
ATOM	15964	CB	ALA	B	307	3.942	73.344	141.052	0.00	0.00		C
ATOM	15965	HN	ALA	B	307	5.212	74.903	142.501	0.00	0.00		H
ATOM	15966	HCA	ALA	B	307	2.663	75.013	141.423	0.00	0.00		H
ATOM	15967	HCB	ALA	B	307	4.581	72.643	141.594	0.00	0.00		H
ATOM	15968	HCB	ALA	B	307	3.159	72.797	140.524	0.00	0.00		H
ATOM	15969	HCB	ALA	B	307	4.546	73.875	140.316	0.00	0.00		H
ATOM	15970	N	PHE	B	308	3.005	72.983	144.073	0.00	0.00		N
ATOM	15971	CA	PHE	B	308	2.270	72.411	145.163	0.00	0.00		C
ATOM	15972	C	PHE	B	308	1.381	73.401	145.847	0.00	0.00		C
ATOM	15973	O	PHE	B	308	0.165	73.104	145.943	0.00	0.00		O
ATOM	15974	CB	PHE	B	308	3.236	71.716	146.161	0.00	0.00		C
ATOM	15975	CG	PHE	B	308	2.489	70.923	147.174	0.00	0.00		C
ATOM	15976	CD1	PHE	B	308	2.000	69.632	146.862	0.00	0.00		C
ATOM	15977	CD2	PHE	B	308	2.198	71.472	148.444	0.00	0.00		C
ATOM	15978	CE1	PHE	B	308	1.228	68.912	147.793	0.00	0.00		C
ATOM	15979	CE2	PHE	B	308	1.420	70.755	149.369	0.00	0.00		C
ATOM	15980	CZ	PHE	B	308	0.934	69.476	149.047	0.00	0.00		C
ATOM	15981	HN	PHE	B	308	3.970	72.885	144.076	0.00	0.00		H
ATOM	15982	HCA	PHE	B	308	1.646	71.625	144.722	0.00	0.00		H
ATOM	15983	HCB	PHE	B	308	3.924	71.054	145.624	0.00	0.00		H
ATOM	15984	HCB	PHE	B	308	3.850	72.474	146.648	0.00	0.00		H
ATOM	15985	HCD1	PHE	B	308	2.198	69.213	145.950	0.00	0.00		H
ATOM	15986	HCD2	PHE	B	308	2.534	72.405	148.695	0.00	0.00		H
ATOM	15987	HCE1	PHE	B	308	0.877	67.981	147.556	0.00	0.00		H
ATOM	15988	HCE2	PHE	B	308	1.207	71.170	150.274	0.00	0.00		H
ATOM	15989	HCZ	PHE	B	308	0.368	68.958	149.722	0.00	0.00		H
ATOM	15990	N	ASP	B	309	1.814	74.600	146.324	0.00	0.00		N
ATOM	15991	CA	ASP	B	309	0.937	75.570	146.936	0.00	0.00		C
ATOM	15992	C	ASP	B	309	-0.147	76.045	146.022	0.00	0.00		C
ATOM	15993	O	ASP	B	309	-1.287	76.237	146.508	0.00	0.00		O
ATOM	15994	CB	ASP	B	309	1.716	76.760	147.574	0.00	0.00		C
ATOM	15995	CG	ASP	B	309	2.267	76.479	148.913	0.00	0.00		C
ATOM	15996	OD1	ASP	B	309	1.612	75.915	149.812	0.00	0.00		O
ATOM	15997	OD2	ASP	B	309	3.369	76.930	149.276	0.00	0.00		O
ATOM	15998	HN	ASP	B	309	2.746	74.823	146.241	0.00	0.00		H

ATOM	15999	HCA	ASP	B	309	0.433	75.046	147.754	0.00	0.00	H	
ATOM	16000	HC	B	ASP	B	309	2.511	77.083	146.901	0.00	0.00	H
ATOM	16001	HC	B	ASP	B	309	1.044	77.610	147.714	0.00	0.00	H
ATOM	16002	N	ARG	B	310	0.032	76.253	144.695	0.00	0.00	N	
ATOM	16003	CA	ARG	B	310	-1.048	76.524	143.769	0.00	0.00	C	
ATOM	16004	C	ARG	B	310	-2.023	75.404	143.630	0.00	0.00	C	
ATOM	16005	O	ARG	B	310	-3.248	75.665	143.674	0.00	0.00	O	
ATOM	16006	CB	ARG	B	310	-0.522	76.858	142.357	0.00	0.00	C	
ATOM	16007	CG	ARG	B	310	0.364	78.125	142.301	0.00	0.00	C	
ATOM	16008	CD	ARG	B	310	0.855	78.364	140.862	0.00	0.00	C	
ATOM	16009	NE	ARG	B	310	2.165	78.890	140.813	0.00	0.00	N	
ATOM	16010	CZ	ARG	B	310	2.785	79.225	139.692	0.00	0.00	C	
ATOM	16011	NH1	ARG	B	310	2.266	79.101	138.480	0.00	0.00	N	
ATOM	16012	NH2	ARG	B	310	4.023	79.627	139.861	0.00	0.00	N	
ATOM	16013	HN	ARG	B	310	0.937	76.223	144.368	0.00	0.00	H	
ATOM	16014	HNE	ARG	B	310	2.719	78.944	141.590	0.00	0.00	H	
ATOM	16015	HNH1	ARG	B	310	1.413	78.694	138.362	0.00	0.00	H	
ATOM	16016	HNH1	ARG	B	310	2.792	79.333	137.716	0.00	0.00	H	
ATOM	16017	HNH2	ARG	B	310	4.369	79.625	140.755	0.00	0.00	H	
ATOM	16018	HNH2	ARG	B	310	4.533	79.850	139.084	0.00	0.00	H	
ATOM	16019	HCA	ARG	B	310	-1.586	77.408	144.129	0.00	0.00	H	
ATOM	16020	HC	B	ARG	B	310	0.050	76.002	141.986	0.00	0.00	H
ATOM	16021	HC	B	ARG	B	310	-1.371	77.012	141.681	0.00	0.00	H
ATOM	16022	HCD	ARG	B	310	0.894	77.416	140.323	0.00	0.00	H	
ATOM	16023	HCD	ARG	B	310	0.156	79.033	140.355	0.00	0.00	H	
ATOM	16024	HCG	ARG	B	310	-0.194	78.998	142.651	0.00	0.00	H	
ATOM	16025	HCG	ARG	B	310	1.216	77.990	142.956	0.00	0.00	H	
ATOM	16026	N	ILE	B	311	-1.610	74.129	143.418	0.00	0.00	N	
ATOM	16027	CA	ILE	B	311	-2.446	72.949	143.368	0.00	0.00	C	
ATOM	16028	C	ILE	B	311	-3.309	72.907	144.587	0.00	0.00	C	
ATOM	16029	O	ILE	B	311	-4.561	72.828	144.489	0.00	0.00	O	
ATOM	16030	CB	ILE	B	311	-1.555	71.658	143.234	0.00	0.00	C	
ATOM	16031	CG1	ILE	B	311	-0.710	71.577	141.920	0.00	0.00	C	
ATOM	16032	CG2	ILE	B	311	-2.339	70.334	143.462	0.00	0.00	C	
ATOM	16033	CD1	ILE	B	311	-1.455	71.246	140.616	0.00	0.00	C	
ATOM	16034	HN	ILE	B	311	-0.667	74.014	143.309	0.00	0.00	H	
ATOM	16035	HCA	ILE	B	311	-3.090	73.017	142.487	0.00	0.00	H	
ATOM	16036	HC	B	ILE	B	311	-0.822	71.701	144.044	0.00	0.00	H
ATOM	16037	HCD1	ILE	B	311	-2.015	70.316	140.695	0.00	0.00	H	
ATOM	16038	HCD1	ILE	B	311	-2.124	72.066	140.357	0.00	0.00	H	
ATOM	16039	HCD1	ILE	B	311	-0.725	71.132	139.818	0.00	0.00	H	
ATOM	16040	HCG1	ILE	B	311	-0.218	72.525	141.736	0.00	0.00	H	
ATOM	16041	HCG1	ILE	B	311	0.080	70.833	142.061	0.00	0.00	H	
ATOM	16042	HCG2	ILE	B	311	-2.673	70.265	144.497	0.00	0.00	H	
ATOM	16043	HCG2	ILE	B	311	-3.207	70.288	142.803	0.00	0.00	H	
ATOM	16044	HCG2	ILE	B	311	-1.703	69.471	143.270	0.00	0.00	H	
ATOM	16045	N	LEU	B	312	-2.709	73.012	145.797	0.00	0.00	N	
ATOM	16046	CA	LEU	B	312	-3.355	73.084	147.071	0.00	0.00	C	
ATOM	16047	C	LEU	B	312	-4.357	74.183	147.112	0.00	0.00	C	
ATOM	16048	O	LEU	B	312	-5.551	73.880	147.328	0.00	0.00	O	
ATOM	16049	CB	LEU	B	312	-2.241	73.236	148.148	0.00	0.00	C	
ATOM	16050	CG	LEU	B	312	-2.692	73.135	149.635	0.00	0.00	C	
ATOM	16051	CD1	LEU	B	312	-3.272	71.736	149.962	0.00	0.00	C	
ATOM	16052	CD2	LEU	B	312	-1.500	73.457	150.575	0.00	0.00	C	
ATOM	16053	HN	LEU	B	312	-1.752	73.054	145.805	0.00	0.00	H	
ATOM	16054	HCA	LEU	B	312	-3.858	72.125	147.224	0.00	0.00	H	
ATOM	16055	HC	B	LEU	B	312	-1.474	72.474	147.976	0.00	0.00	H
ATOM	16056	HC	B	LEU	B	312	-1.764	74.204	148.004	0.00	0.00	H
ATOM	16057	HCD1	LEU	B	312	-4.284	71.641	149.566	0.00	0.00	H	
ATOM	16058	HCD1	LEU	B	312	-2.649	70.956	149.522	0.00	0.00	H	
ATOM	16059	HCD1	LEU	B	312	-3.310	71.577	151.039	0.00	0.00	H	
ATOM	16060	HCD2	LEU	B	312	-0.733	72.685	150.506	0.00	0.00	H	
ATOM	16061	HCD2	LEU	B	312	-1.045	74.412	150.311	0.00	0.00	H	
ATOM	16062	HCD2	LEU	B	312	-1.840	73.523	151.609	0.00	0.00	H	
ATOM	16063	HCG	LEU	B	312	-3.465	73.885	149.821	0.00	0.00	H	
ATOM	16064	N	GLY	B	313	-4.019	75.467	146.840	0.00	0.00	N	
ATOM	16065	CA	GLY	B	313	-4.913	76.584	146.727	0.00	0.00	C	
ATOM	16066	C	GLY	B	313	-6.091	76.349	145.869	0.00	0.00	C	
ATOM	16067	O	GLY	B	313	-7.236	76.601	146.308	0.00	0.00	O	
ATOM	16068	HN	GLY	B	313	-3.091	75.662	146.718	0.00	0.00	H	
ATOM	16069	HCA	GLY	B	313	-5.238	76.878	147.724	0.00	0.00	H	
ATOM	16070	HCA	GLY	B	313	-4.354	77.420	146.303	0.00	0.00	H	
ATOM	16071	N	SER	B	314	-5.932	75.837	144.630	0.00	0.00	N	
ATOM	16072	CA	SER	B	314	-6.989	75.484	143.725	0.00	0.00	C	
ATOM	16073	C	SER	B	314	-7.944	74.499	144.303	0.00	0.00	C	
ATOM	16074	O	SER	B	314	-9.167	74.784	144.397	0.00	0.00	O	
ATOM	16075	CB	SER	B	314	-6.414	74.977	142.376	0.00	0.00	C	
ATOM	16076	OG	SER	B	314	-5.456	75.885	141.833	0.00	0.00	O	
ATOM	16077	HN	SER	B	314	-5.033	75.729	144.332	0.00	0.00	H	
ATOM	16078	HCA	SER	B	314	-7.527	76.401	143.510	0.00	0.00	H	

ATOM	16079	HC	B	314	-5.934	74.004	142.496	0.00	0.00	H
ATOM	16080	HC	B	314	-7.227	74.871	141.655	0.00	0.00	H
ATOM	16081	HC	B	314	-4.698	75.834	142.436	0.00	0.00	H
ATOM	16082	N	B	315	-7.473	73.315	144.763	0.00	0.00	N
ATOM	16083	CA	B	315	-8.271	72.282	145.373	0.00	0.00	C
ATOM	16084	C	B	315	-9.022	72.784	146.561	0.00	0.00	C
ATOM	16085	O	B	315	-10.261	72.598	146.642	0.00	0.00	O
ATOM	16086	CB	B	315	-7.346	71.083	145.739	0.00	0.00	C
ATOM	16087	CG	B	315	-6.764	70.362	144.488	0.00	0.00	C
ATOM	16088	CD	B	315	-5.602	69.391	144.805	0.00	0.00	C
ATOM	16089	NE	B	315	-6.079	68.181	145.381	0.00	0.00	N
ATOM	16090	CZ	B	315	-5.307	67.163	145.763	0.00	0.00	C
ATOM	16091	NH1	B	315	-3.986	67.114	145.759	0.00	0.00	N
ATOM	16092	NH2	B	315	-5.847	66.045	146.198	0.00	0.00	N
ATOM	16093	HN	B	315	-6.524	73.164	144.683	0.00	0.00	H
ATOM	16094	HNE	B	315	-7.033	68.068	145.478	0.00	0.00	H
ATOM	16095	HNH1	B	315	-3.444	67.856	145.468	0.00	0.00	H
ATOM	16096	HNH1	B	315	-3.609	66.287	146.066	0.00	0.00	H
ATOM	16097	HNH2	B	315	-6.801	65.921	146.250	0.00	0.00	H
ATOM	16098	HNH2	B	315	-5.236	65.360	146.477	0.00	0.00	H
ATOM	16099	HCA	B	315	-8.999	71.930	144.634	0.00	0.00	H
ATOM	16100	HC	B	315	-6.529	71.449	146.369	0.00	0.00	H
ATOM	16101	HC	B	315	-7.911	70.352	146.325	0.00	0.00	H
ATOM	16102	HCD	B	315	-5.092	69.147	143.869	0.00	0.00	H
ATOM	16103	HCD	B	315	-4.885	69.877	145.473	0.00	0.00	H
ATOM	16104	HCG	B	315	-7.567	69.823	143.979	0.00	0.00	H
ATOM	16105	HCG	B	315	-6.384	71.104	143.782	0.00	0.00	H
ATOM	16106	N	B	316	-8.373	73.496	147.510	0.00	0.00	N
ATOM	16107	CA	B	316	-8.957	74.145	148.647	0.00	0.00	C
ATOM	16108	C	B	316	-10.019	75.113	148.250	0.00	0.00	C
ATOM	16109	O	B	316	-11.108	75.059	148.854	0.00	0.00	O
ATOM	16110	CB	B	316	-7.842	74.856	149.463	0.00	0.00	C
ATOM	16111	CG	B	316	-6.816	73.918	150.159	0.00	0.00	C
ATOM	16112	SD	B	316	-7.337	73.456	151.832	0.00	0.00	S
ATOM	16113	CE	B	316	-5.723	73.489	152.644	0.00	0.00	C
ATOM	16114	HN	B	316	-7.430	73.604	147.406	0.00	0.00	H
ATOM	16115	HCA	B	316	-9.398	73.375	149.288	0.00	0.00	H
ATOM	16116	HC	B	316	-7.302	75.531	148.794	0.00	0.00	H
ATOM	16117	HC	B	316	-8.309	75.478	150.227	0.00	0.00	H
ATOM	16118	HCE	B	316	-5.281	74.483	152.568	0.00	0.00	H
ATOM	16119	HCE	B	316	-5.840	73.244	153.697	0.00	0.00	H
ATOM	16120	HCE	B	316	-5.061	72.759	152.185	0.00	0.00	H
ATOM	16121	HCG	B	316	-6.659	73.003	149.586	0.00	0.00	H
ATOM	16122	HCG	B	316	-5.861	74.440	150.206	0.00	0.00	H
ATOM	16123	N	B	317	-9.865	76.030	147.267	0.00	0.00	N
ATOM	16124	CA	B	317	-10.897	76.884	146.740	0.00	0.00	C
ATOM	16125	C	B	317	-12.102	76.187	146.235	0.00	0.00	C
ATOM	16126	O	B	317	-13.242	76.545	146.635	0.00	0.00	O
ATOM	16127	HN	B	317	-8.985	76.145	146.911	0.00	0.00	H
ATOM	16128	HCA	B	317	-11.188	77.595	147.513	0.00	0.00	H
ATOM	16129	HCA	B	317	-10.473	77.452	145.913	0.00	0.00	H
ATOM	16130	N	B	318	-11.965	75.149	145.372	0.00	0.00	N
ATOM	16131	CA	B	318	-13.071	74.327	144.925	0.00	0.00	C
ATOM	16132	C	B	318	-13.802	73.760	146.099	0.00	0.00	C
ATOM	16133	O	B	318	-15.036	73.972	146.240	0.00	0.00	O
ATOM	16134	CB	B	318	-12.641	73.200	143.919	0.00	0.00	C
ATOM	16135	CG1	B	318	-13.882	72.464	143.327	0.00	0.00	C
ATOM	16136	CG2	B	318	-11.713	73.704	142.766	0.00	0.00	C
ATOM	16137	HN	B	318	-11.072	74.963	145.055	0.00	0.00	H
ATOM	16138	HCA	B	318	-13.758	74.988	144.392	0.00	0.00	H
ATOM	16139	HC	B	318	-12.073	72.450	144.481	0.00	0.00	H
ATOM	16140	HCG1	B	318	-14.489	73.151	142.733	0.00	0.00	H
ATOM	16141	HCG1	B	318	-13.568	71.638	142.689	0.00	0.00	H
ATOM	16142	HCG1	B	318	-14.506	72.044	144.117	0.00	0.00	H
ATOM	16143	HCG2	B	318	-11.664	74.791	142.725	0.00	0.00	H
ATOM	16144	HCG2	B	318	-10.699	73.333	142.917	0.00	0.00	H
ATOM	16145	HCG2	B	318	-12.040	73.356	141.785	0.00	0.00	H
ATOM	16146	N	B	319	-13.104	73.066	147.033	0.00	0.00	N
ATOM	16147	CA	B	319	-13.659	72.501	148.227	0.00	0.00	C
ATOM	16148	C	B	319	-14.392	73.511	149.041	0.00	0.00	C
ATOM	16149	O	B	319	-15.544	73.236	149.436	0.00	0.00	O
ATOM	16150	CB	B	319	-12.540	71.784	149.043	0.00	0.00	C
ATOM	16151	CG	B	319	-13.081	70.823	150.141	0.00	0.00	C
ATOM	16152	CD	B	319	-13.829	69.684	149.587	0.00	0.00	C
ATOM	16153	OE1	B	319	-13.265	68.811	148.897	0.00	0.00	O
ATOM	16154	OE2	B	319	-15.061	69.585	149.767	0.00	0.00	O
ATOM	16155	HN	B	319	-12.165	72.937	146.882	0.00	0.00	H
ATOM	16156	HCA	B	319	-14.371	71.739	147.895	0.00	0.00	H
ATOM	16157	HC	B	319	-11.913	71.201	148.362	0.00	0.00	H
ATOM	16158	HC	B	319	-11.895	72.530	149.514	0.00	0.00	H

ATOM	16159	HCG	GLU	B	319	-12.250	70.428	150.727	0.00	0.00	
ATOM	16160	HCG	GLU	B	319	-13.726	71.376	150.824	0.00	0.00	
ATOM	16161	N	ALA	B	320	-13.860	74.722	149.323	0.00	0.00	
ATOM	16162	CA	ALA	B	320	-14.500	75.815	149.990	0.00	0.00	
ATOM	16163	C	ALA	B	320	-15.797	76.204	149.394	0.00	0.00	
ATOM	16164	O	ALA	B	320	-16.805	76.230	150.137	0.00	0.00	
ATOM	16165	CB	ALA	B	320	-13.556	77.042	150.057	0.00	0.00	
ATOM	16166	HN	ALA	B	320	-12.948	74.844	149.089	0.00	0.00	
ATOM	16167	HCA	ALA	B	320	-14.685	75.483	151.009	0.00	0.00	
ATOM	16168	HCB	ALA	B	320	-12.634	76.786	150.575	0.00	0.00	
ATOM	16169	HCB	ALA	B	320	-13.301	77.396	149.060	0.00	0.00	
ATOM	16170	HCB	ALA	B	320	-14.031	77.863	150.599	0.00	0.00	
ATOM	16171	N	VAL	B	321	-15.906	76.514	148.081	0.00	0.00	
ATOM	16172	CA	VAL	B	321	-17.165	76.843	147.451	0.00	0.00	
ATOM	16173	C	VAL	B	321	-18.155	75.732	147.586	0.00	0.00	
ATOM	16174	O	VAL	B	321	-19.312	75.990	148.015	0.00	0.00	
ATOM	16175	CB	VAL	B	321	-16.940	77.304	145.976	0.00	0.00	
ATOM	16176	CG1	VAL	B	321	-18.274	77.516	145.207	0.00	0.00	
ATOM	16177	CG2	VAL	B	321	-16.121	78.623	145.931	0.00	0.00	
ATOM	16178	HN	VAL	B	321	-15.091	76.505	147.561	0.00	0.00	
ATOM	16179	HCA	VAL	B	321	-17.579	77.705	147.985	0.00	0.00	
ATOM	16180	HCB	VAL	B	321	-16.368	76.530	145.454	0.00	0.00	
ATOM	16181	HCG1	VAL	B	321	-18.923	78.215	145.739	0.00	0.00	
ATOM	16182	HCG1	VAL	B	321	-18.082	77.912	144.212	0.00	0.00	
ATOM	16183	HCG1	VAL	B	321	-18.798	76.567	145.087	0.00	0.00	
ATOM	16184	HCG2	VAL	B	321	-15.147	78.486	146.402	0.00	0.00	
ATOM	16185	HCG2	VAL	B	321	-15.959	78.938	144.902	0.00	0.00	
ATOM	16186	HCG2	VAL	B	321	-16.648	79.422	146.453	0.00	0.00	
ATOM	16187	N	MET	B	322	-17.805	74.454	147.299	0.00	0.00	
ATOM	16188	CA	MET	B	322	-18.686	73.325	147.479	0.00	0.00	
ATOM	16189	C	MET	B	322	-19.186	73.221	148.885	0.00	0.00	
ATOM	16190	O	MET	B	322	-20.421	73.223	149.101	0.00	0.00	
ATOM	16191	CB	MET	B	322	-17.987	72.016	147.003	0.00	0.00	
ATOM	16192	CG	MET	B	322	-17.669	71.974	145.483	0.00	0.00	
ATOM	16193	SD	MET	B	322	-19.163	71.861	144.464	0.00	0.00	
ATOM	16194	CE	MET	B	322	-18.361	72.038	142.855	0.00	0.00	
ATOM	16195	HN	MET	B	322	-16.911	74.297	146.970	0.00	0.00	
ATOM	16196	HCA	MET	B	322	-19.557	73.483	146.834	0.00	0.00	
ATOM	16197	HCB	MET	B	322	-17.051	71.893	147.556	0.00	0.00	
ATOM	16198	HCB	MET	B	322	-18.620	71.157	147.244	0.00	0.00	
ATOM	16199	HCE	MET	B	322	-17.867	73.008	142.786	0.00	0.00	
ATOM	16200	HCE	MET	B	322	-17.629	71.243	142.708	0.00	0.00	
ATOM	16201	HCE	MET	B	322	-19.118	71.972	142.074	0.00	0.00	
ATOM	16202	HCG	MET	B	322	-17.111	72.865	145.196	0.00	0.00	
ATOM	16203	HCG	MET	B	322	-17.046	71.101	145.276	0.00	0.00	
ATOM	16204	N	ALA	B	323	-18.328	73.219	149.932	0.00	0.00	
ATOM	16205	CA	ALA	B	323	-18.659	73.220	151.327	0.00	0.00	
ATOM	16206	C	ALA	B	323	-19.567	74.337	151.711	0.00	0.00	
ATOM	16207	O	ALA	B	323	-20.610	74.053	152.344	0.00	0.00	
ATOM	16208	CB	ALA	B	323	-17.349	73.252	152.153	0.00	0.00	
ATOM	16209	HN	ALA	B	323	-17.399	73.229	149.724	0.00	0.00	
ATOM	16210	HCA	ALA	B	323	-19.153	72.268	151.546	0.00	0.00	
ATOM	16211	HCB	ALA	B	323	-16.784	74.164	151.953	0.00	0.00	
ATOM	16212	HCB	ALA	B	323	-17.571	73.207	153.222	0.00	0.00	
ATOM	16213	HCB	ALA	B	323	-16.722	72.395	151.897	0.00	0.00	
ATOM	16214	N	LEU	B	324	-19.319	75.623	151.354	0.00	0.00	
ATOM	16215	CA	LEU	B	324	-20.210	76.735	151.562	0.00	0.00	
ATOM	16216	C	LEU	B	324	-21.570	76.458	151.027	0.00	0.00	
ATOM	16217	O	LEU	B	324	-22.550	76.532	151.804	0.00	0.00	
ATOM	16218	CB	LEU	B	324	-19.672	78.046	150.902	0.00	0.00	
ATOM	16219	CG	LEU	B	324	-18.505	78.784	151.624	0.00	0.00	
ATOM	16220	CD1	LEU	B	324	-17.931	79.907	150.722	0.00	0.00	
ATOM	16221	CD2	LEU	B	324	-18.907	79.372	153.005	0.00	0.00	
ATOM	16222	HN	LEU	B	324	-18.486	75.804	150.923	0.00	0.00	
ATOM	16223	HCA	LEU	B	324	-20.299	76.887	152.640	0.00	0.00	
ATOM	16224	HCB	LEU	B	324	-19.354	77.804	149.886	0.00	0.00	
ATOM	16225	HCB	LEU	B	324	-20.495	78.757	150.805	0.00	0.00	
ATOM	16226	HCD1	LEU	B	324	-17.475	79.483	149.825	0.00	0.00	
ATOM	16227	HCD1	LEU	B	324	-18.705	80.612	150.417	0.00	0.00	
ATOM	16228	HCD1	LEU	B	324	-17.163	80.456	151.262	0.00	0.00	
ATOM	16229	HCD2	LEU	B	324	-19.202	78.587	153.693	0.00	0.00	
ATOM	16230	HCD2	LEU	B	324	-18.067	79.898	153.454	0.00	0.00	
ATOM	16231	HCD2	LEU	B	324	-19.732	80.071	152.914	0.00	0.00	
ATOM	16232	HCG	LEU	B	324	-17.697	78.069	151.783	0.00	0.00	
ATOM	16233	N	LEU	B	325	-21.754	76.148	149.723	0.00	0.00	
ATOM	16234	CA	LEU	B	325	-23.050	75.953	149.127	0.00	0.00	
ATOM	16235	C	LEU	B	325	-23.779	74.762	149.649	0.00	0.00	
ATOM	16236	O	LEU	B	325	-25.016	74.852	149.836	0.00	0.00	
ATOM	16237	CB	LEU	B	325	-22.920	75.938	147.582	0.00	0.00	
ATOM	16238	CG	LEU	B	325	-22.374	77.269	146.969	0.00	0.00	

ATOM	16239	CD1	LEU	B	325	-22.073	77.060	145.469	0.00	0.00	C
ATOM	16240	CD2	LEU	B	325	-23.330	78.480	147.164	0.00	0.00	C
ATOM	16241	HN	LEU	B	325	-20.969	76.074	149.166	0.00	0.00	H
ATOM	16242	HCA	LEU	B	325	-23.663	76.820	149.391	0.00	0.00	H
ATOM	16243	HCB	LEU	B	325	-22.257	75.110	147.309	0.00	0.00	H
ATOM	16244	HCB	LEU	B	325	-23.901	75.731	147.144	0.00	0.00	H
ATOM	16245	HCD1	LEU	B	325	-22.977	76.789	144.924	0.00	0.00	H
ATOM	16246	HCD1	LEU	B	325	-21.660	77.976	145.043	0.00	0.00	H
ATOM	16247	HCD1	LEU	B	325	-21.341	76.260	145.339	0.00	0.00	H
ATOM	16248	HCD2	LEU	B	325	-23.358	78.786	148.210	0.00	0.00	H
ATOM	16249	HCD2	LEU	B	325	-22.991	79.341	146.584	0.00	0.00	H
ATOM	16250	HCD2	LEU	B	325	-24.342	78.224	146.847	0.00	0.00	H
ATOM	16251	HCG	LEU	B	325	-21.424	77.523	147.449	0.00	0.00	H
ATOM	16252	N	GLU	B	326	-23.139	73.614	149.971	0.00	0.00	N
ATOM	16253	CA	GLU	B	326	-23.722	72.521	150.707	0.00	0.00	C
ATOM	16254	C	GLU	B	326	-24.202	72.954	152.055	0.00	0.00	C
ATOM	16255	O	GLU	B	326	-25.364	72.647	152.412	0.00	0.00	O
ATOM	16256	CB	GLU	B	326	-22.688	71.364	150.831	0.00	0.00	C
ATOM	16257	CG	GLU	B	326	-22.444	70.597	149.499	0.00	0.00	C
ATOM	16258	CD	GLU	B	326	-21.350	69.618	149.602	0.00	0.00	C
ATOM	16259	OE1	GLU	B	326	-21.373	68.711	150.461	0.00	0.00	O
ATOM	16260	OE2	GLU	B	326	-20.349	69.660	148.856	0.00	0.00	O
ATOM	16261	HN	GLU	B	326	-22.221	73.529	149.711	0.00	0.00	H
ATOM	16262	HCA	GLU	B	326	-24.581	72.144	150.141	0.00	0.00	H
ATOM	16263	HCB	GLU	B	326	-21.739	71.766	151.201	0.00	0.00	H
ATOM	16264	HCB	GLU	B	326	-23.045	70.640	151.571	0.00	0.00	H
ATOM	16265	HCG	GLU	B	326	-23.350	70.057	149.218	0.00	0.00	H
ATOM	16266	HCG	GLU	B	326	-22.214	71.301	148.697	0.00	0.00	H
ATOM	16267	N	GLY	B	327	-23.393	73.657	152.882	0.00	0.00	N
ATOM	16268	CA	GLY	B	327	-23.679	74.185	154.184	0.00	0.00	C
ATOM	16269	C	GLY	B	327	-25.063	74.609	154.503	0.00	0.00	C
ATOM	16270	O	GLY	B	327	-25.597	75.549	153.864	0.00	0.00	O
ATOM	16271	HN	GLY	B	327	-22.490	73.794	152.596	0.00	0.00	H
ATOM	16272	HCA	GLY	B	327	-23.345	73.437	154.900	0.00	0.00	H
ATOM	16273	HCA	GLY	B	327	-23.037	75.055	154.321	0.00	0.00	H
ATOM	16274	N	THR	B	328	-25.711	73.983	155.513	0.00	0.00	N
ATOM	16275	CA	THR	B	328	-27.055	74.218	155.974	0.00	0.00	C
ATOM	16276	C	THR	B	328	-27.076	74.856	157.329	0.00	0.00	C
ATOM	16277	O	THR	B	328	-26.028	74.780	158.020	0.00	0.00	O
ATOM	16278	CB	THR	B	328	-27.797	72.846	156.074	0.00	0.00	C
ATOM	16279	CG2	THR	B	328	-27.656	71.930	154.837	0.00	0.00	C
ATOM	16280	OG1	THR	B	328	-27.352	72.121	157.223	0.00	0.00	O
ATOM	16281	HN	THR	B	328	-25.239	73.288	155.969	0.00	0.00	H
ATOM	16282	HCA	THR	B	328	-27.583	74.858	155.264	0.00	0.00	H
ATOM	16283	HCB	THR	B	328	-28.866	73.026	156.208	0.00	0.00	H
ATOM	16284	HCG2	THR	B	328	-27.957	72.465	153.935	0.00	0.00	H
ATOM	16285	HCG2	THR	B	328	-26.626	71.590	154.719	0.00	0.00	H
ATOM	16286	HCG2	THR	B	328	-28.295	71.051	154.950	0.00	0.00	H
ATOM	16287	HOG1	THR	B	328	-26.393	72.006	157.108	0.00	0.00	H
ATOM	16288	N	PRO	B	329	-28.194	75.382	157.923	0.00	0.00	N
ATOM	16289	CA	PRO	B	329	-28.273	75.669	159.340	0.00	0.00	C
ATOM	16290	C	PRO	B	329	-27.966	74.582	160.275	0.00	0.00	C
ATOM	16291	O	PRO	B	329	-27.942	74.868	161.466	0.00	0.00	O
ATOM	16292	CB	PRO	B	329	-29.713	76.200	159.554	0.00	0.00	C
ATOM	16293	CG	PRO	B	329	-30.117	76.710	158.170	0.00	0.00	C
ATOM	16294	CD	PRO	B	329	-29.395	75.740	157.225	0.00	0.00	C
ATOM	16295	HCA	PRO	B	329	-27.570	76.486	159.540	0.00	0.00	H
ATOM	16296	HCB	PRO	B	329	-30.397	75.398	159.855	0.00	0.00	H
ATOM	16297	HCB	PRO	B	329	-29.749	76.998	160.302	0.00	0.00	H
ATOM	16298	HCD	PRO	B	329	-30.020	74.859	157.057	0.00	0.00	H
ATOM	16299	HCD	PRO	B	329	-29.200	76.239	156.272	0.00	0.00	H
ATOM	16300	HCG	PRO	B	329	-31.201	76.689	158.029	0.00	0.00	H
ATOM	16301	HCG	PRO	B	329	-29.750	77.731	158.024	0.00	0.00	H
ATOM	16302	N	ASP	B	330	-27.695	73.343	159.892	0.00	0.00	N
ATOM	16303	CA	ASP	B	330	-27.307	72.245	160.737	0.00	0.00	C
ATOM	16304	C	ASP	B	330	-25.890	71.857	160.481	0.00	0.00	C
ATOM	16305	O	ASP	B	330	-25.402	70.921	161.159	0.00	0.00	O
ATOM	16306	CB	ASP	B	330	-28.293	71.066	160.479	0.00	0.00	C
ATOM	16307	CG	ASP	B	330	-29.687	71.402	160.801	0.00	0.00	C
ATOM	16308	OD1	ASP	B	330	-30.028	71.678	161.971	0.00	0.00	O
ATOM	16309	OD2	ASP	B	330	-30.574	71.417	159.922	0.00	0.00	O
ATOM	16310	HN	ASP	B	330	-27.702	73.116	158.957	0.00	0.00	H
ATOM	16311	HCA	ASP	B	330	-27.363	72.509	161.799	0.00	0.00	H
ATOM	16312	HCB	ASP	B	330	-28.228	70.754	159.434	0.00	0.00	H
ATOM	16313	HCB	ASP	B	330	-28.015	70.208	161.096	0.00	0.00	H
ATOM	16314	N	THR	B	331	-25.111	72.499	159.573	0.00	0.00	N
ATOM	16315	CA	THR	B	331	-23.735	72.202	159.277	0.00	0.00	C
ATOM	16316	C	THR	B	331	-22.863	73.071	160.126	0.00	0.00	C
ATOM	16317	O	THR	B	331	-23.052	74.309	160.019	0.00	0.00	O
ATOM	16318	CB	THR	B	331	-23.456	72.425	157.757	0.00	0.00	C

ATOM	16319	CG2	THR	B	331	-22.086	71.858	157.309	0.00	0.00	C
ATOM	16320	OG1	THR	B	331	-24.471	71.810	156.957	0.00	0.00	O
ATOM	16321	HN	THR	B	331	-25.481	73.245	159.096	0.00	0.00	H
ATOM	16322	HCA	THR	B	331	-23.549	71.146	159.479	0.00	0.00	H
ATOM	16323	HCN	THR	B	331	-23.480	73.497	157.535	0.00	0.00	H
ATOM	16324	HCG2	THR	B	331	-22.023	70.789	157.520	0.00	0.00	H
ATOM	16325	HCG2	THR	B	331	-21.945	72.004	156.238	0.00	0.00	H
ATOM	16326	HCG2	THR	B	331	-21.274	72.368	157.831	0.00	0.00	H
ATOM	16327	HOG1	THR	B	331	-24.336	70.843	157.086	0.00	0.00	H
ATOM	16328	N	PRO	B	332	-21.909	72.630	161.006	0.00	0.00	N
ATOM	16329	CA	PRO	B	332	-21.132	73.531	161.828	0.00	0.00	C
ATOM	16330	C	PRO	B	332	-20.100	74.278	161.106	0.00	0.00	C
ATOM	16331	O	PRO	B	332	-19.861	74.061	159.925	0.00	0.00	O
ATOM	16332	CB	PRO	B	332	-20.549	72.604	162.924	0.00	0.00	C
ATOM	16333	CG	PRO	B	332	-20.393	71.259	162.206	0.00	0.00	C
ATOM	16334	CD	PRO	B	332	-21.573	71.252	161.221	0.00	0.00	C
ATOM	16335	HCA	PRO	B	332	-21.799	74.256	162.308	0.00	0.00	H
ATOM	16336	HCN	PRO	B	332	-19.597	72.952	163.337	0.00	0.00	H
ATOM	16337	HCN	PRO	B	332	-21.266	72.500	163.746	0.00	0.00	H
ATOM	16338	HCD	PRO	B	332	-21.279	70.758	160.291	0.00	0.00	H
ATOM	16339	HCD	PRO	B	332	-22.424	70.725	161.663	0.00	0.00	H
ATOM	16340	HCG	PRO	B	332	-19.442	71.233	161.663	0.00	0.00	H
ATOM	16341	HCG	PRO	B	332	-20.433	70.417	162.903	0.00	0.00	H
ATOM	16342	N	ALA	B	333	-19.415	75.193	161.767	0.00	0.00	N
ATOM	16343	CA	ALA	B	333	-18.316	75.974	161.274	0.00	0.00	C
ATOM	16344	C	ALA	B	333	-17.146	75.125	160.943	0.00	0.00	C
ATOM	16345	O	ALA	B	333	-16.722	74.345	161.829	0.00	0.00	O
ATOM	16346	CB	ALA	B	333	-17.967	76.994	162.380	0.00	0.00	C
ATOM	16347	HN	ALA	B	333	-19.662	75.324	162.694	0.00	0.00	H
ATOM	16348	HCA	ALA	B	333	-18.637	76.525	160.383	0.00	0.00	H
ATOM	16349	HCN	ALA	B	333	-17.624	76.496	163.291	0.00	0.00	H
ATOM	16350	HCN	ALA	B	333	-17.193	77.682	162.045	0.00	0.00	H
ATOM	16351	HCN	ALA	B	333	-18.853	77.571	162.618	0.00	0.00	H
ATOM	16352	N	CYS	B	334	-16.569	75.160	159.717	0.00	0.00	N
ATOM	16353	CA	CYS	B	334	-15.562	74.236	159.265	0.00	0.00	C
ATOM	16354	C	CYS	B	334	-14.386	74.856	158.602	0.00	0.00	C
ATOM	16355	O	CYS	B	334	-14.460	75.950	157.996	0.00	0.00	O
ATOM	16356	CB	CYS	B	334	-16.216	73.152	158.361	0.00	0.00	C
ATOM	16357	SG	CYS	B	334	-16.978	73.824	156.869	0.00	0.00	S
ATOM	16358	HN	CYS	B	334	-16.890	75.829	159.090	0.00	0.00	H
ATOM	16359	HCA	CYS	B	334	-15.156	73.702	160.125	0.00	0.00	H
ATOM	16360	HCN	CYS	B	334	-15.464	72.420	158.058	0.00	0.00	H
ATOM	16361	HCN	CYS	B	334	-16.988	72.620	158.923	0.00	0.00	H
ATOM	16362	HSG	CYS	B	334	-15.924	74.657	156.668	0.00	0.00	H
ATOM	16363	N	VAL	B	335	-13.241	74.146	158.610	0.00	0.00	N
ATOM	16364	CA	VAL	B	335	-12.030	74.406	157.901	0.00	0.00	C
ATOM	16365	C	VAL	B	335	-11.963	73.431	156.790	0.00	0.00	C
ATOM	16366	O	VAL	B	335	-12.102	72.211	157.057	0.00	0.00	O
ATOM	16367	CB	VAL	B	335	-10.775	74.246	158.823	0.00	0.00	C
ATOM	16368	CG1	VAL	B	335	-9.460	74.582	158.072	0.00	0.00	C
ATOM	16369	CG2	VAL	B	335	-10.880	75.129	160.086	0.00	0.00	C
ATOM	16370	HN	VAL	B	335	-13.248	73.355	159.138	0.00	0.00	H
ATOM	16371	HCA	VAL	B	335	-12.041	75.422	157.508	0.00	0.00	H
ATOM	16372	HCN	VAL	B	335	-10.710	73.205	159.163	0.00	0.00	H
ATOM	16373	HCG1	VAL	B	335	-9.311	73.909	157.228	0.00	0.00	H
ATOM	16374	HCG1	VAL	B	335	-9.487	75.607	157.699	0.00	0.00	H
ATOM	16375	HCG1	VAL	B	335	-8.600	74.465	158.728	0.00	0.00	H
ATOM	16376	HCG2	VAL	B	335	-10.958	76.184	159.817	0.00	0.00	H
ATOM	16377	HCG2	VAL	B	335	-11.757	74.829	160.648	0.00	0.00	H
ATOM	16378	HCG2	VAL	B	335	-10.019	74.991	160.734	0.00	0.00	H
ATOM	16379	N	VAL	B	336	-11.650	73.856	155.545	0.00	0.00	N
ATOM	16380	CA	VAL	B	336	-11.312	72.978	154.459	0.00	0.00	C
ATOM	16381	C	VAL	B	336	-9.854	72.708	154.556	0.00	0.00	C
ATOM	16382	O	VAL	B	336	-9.039	73.663	154.550	0.00	0.00	O
ATOM	16383	CB	VAL	B	336	-11.801	73.444	153.053	0.00	0.00	C
ATOM	16384	CG1	VAL	B	336	-13.353	73.429	152.980	0.00	0.00	C
ATOM	16385	CG2	VAL	B	336	-11.250	74.814	152.585	0.00	0.00	C
ATOM	16386	HN	VAL	B	336	-11.514	74.801	155.449	0.00	0.00	H
ATOM	16387	HCA	VAL	B	336	-11.823	72.027	154.618	0.00	0.00	H
ATOM	16388	HCN	VAL	B	336	-11.446	72.700	152.329	0.00	0.00	H
ATOM	16389	HCG1	VAL	B	336	-13.783	74.182	153.640	0.00	0.00	H
ATOM	16390	HCG1	VAL	B	336	-13.681	73.621	151.962	0.00	0.00	H
ATOM	16391	HCG1	VAL	B	336	-13.744	72.454	153.271	0.00	0.00	H
ATOM	16392	HCG2	VAL	B	336	-11.632	75.625	153.204	0.00	0.00	H
ATOM	16393	HCG2	VAL	B	336	-10.162	74.830	152.613	0.00	0.00	H
ATOM	16394	HCG2	VAL	B	336	-11.547	74.990	151.553	0.00	0.00	H
ATOM	16395	N	SER	B	337	-9.430	71.442	154.763	0.00	0.00	N
ATOM	16396	CA	SER	B	337	-8.081	71.038	155.051	0.00	0.00	C
ATOM	16397	C	SER	B	337	-7.613	69.926	154.194	0.00	0.00	C
ATOM	16398	O	SER	B	337	-8.462	69.208	153.616	0.00	0.00	O

ATOM	16399	CB	SER	B	337	-7.964	70.679	156.553	0.00	0.00	C
ATOM	16400	OG	SER	B	337	-8.436	69.387	156.914	0.00	0.00	O
ATOM	16401	HN	SER	B	337	-10.108	70.766	154.726	0.00	0.00	H
ATOM	16402	HCA	SER	B	337	-7.402	71.873	154.868	0.00	0.00	H
ATOM	16403	HCN	SER	B	337	-6.917	70.683	156.811	0.00	0.00	H
ATOM	16404	HCN	SER	B	337	-8.461	71.430	157.172	0.00	0.00	H
ATOM	16405	HOG	SER	B	337	-7.864	69.179	157.674	0.00	0.00	H
ATOM	16406	N	LEU	B	338	-6.287	69.662	154.067	0.00	0.00	N
ATOM	16407	CA	LEU	B	338	-5.729	68.574	153.315	0.00	0.00	C
ATOM	16408	C	LEU	B	338	-5.277	67.532	154.271	0.00	0.00	C
ATOM	16409	O	LEU	B	338	-4.390	67.810	155.117	0.00	0.00	O
ATOM	16410	CB	LEU	B	338	-4.566	69.053	152.399	0.00	0.00	C
ATOM	16411	CG	LEU	B	338	-4.090	67.966	151.368	0.00	0.00	C
ATOM	16412	CD1	LEU	B	338	-4.874	68.065	150.030	0.00	0.00	C
ATOM	16413	CD2	LEU	B	338	-2.559	68.024	151.123	0.00	0.00	C
ATOM	16414	HN	LEU	B	338	-5.663	70.214	154.542	0.00	0.00	H
ATOM	16415	HCA	LEU	B	338	-6.487	68.147	152.654	0.00	0.00	H
ATOM	16416	HCN	LEU	B	338	-4.900	69.943	151.861	0.00	0.00	H
ATOM	16417	HCN	LEU	B	338	-3.732	69.371	153.033	0.00	0.00	H
ATOM	16418	HCD1	LEU	B	338	-4.688	69.023	149.543	0.00	0.00	H
ATOM	16419	HCD1	LEU	B	338	-4.573	67.271	149.346	0.00	0.00	H
ATOM	16420	HCD1	LEU	B	338	-5.946	67.968	150.207	0.00	0.00	H
ATOM	16421	HCD2	LEU	B	338	-2.021	67.825	152.052	0.00	0.00	H
ATOM	16422	HCD2	LEU	B	338	-2.256	67.274	150.390	0.00	0.00	H
ATOM	16423	HCD2	LEU	B	338	-2.260	69.005	150.758	0.00	0.00	H
ATOM	16424	HCG	LEU	B	338	-4.285	66.968	151.775	0.00	0.00	H
ATOM	16425	N	SER	B	339	-5.815	66.294	154.191	0.00	0.00	N
ATOM	16426	CA	SER	B	339	-5.420	65.158	154.968	0.00	0.00	C
ATOM	16427	C	SER	B	339	-4.998	64.086	154.021	0.00	0.00	C
ATOM	16428	O	SER	B	339	-5.846	63.504	153.302	0.00	0.00	O
ATOM	16429	CB	SER	B	339	-6.562	64.734	155.937	0.00	0.00	C
ATOM	16430	OG	SER	B	339	-7.731	64.312	155.240	0.00	0.00	O
ATOM	16431	HN	SER	B	339	-6.495	66.160	153.526	0.00	0.00	H
ATOM	16432	HCA	SER	B	339	-4.563	65.408	155.600	0.00	0.00	H
ATOM	16433	HCN	SER	B	339	-6.223	63.908	156.566	0.00	0.00	H
ATOM	16434	HCN	SER	B	339	-6.826	65.569	156.592	0.00	0.00	H
ATOM	16435	HOG	SER	B	339	-7.314	63.909	154.468	0.00	0.00	H
ATOM	16436	N	GLY	B	340	-3.693	63.754	153.888	0.00	0.00	N
ATOM	16437	CA	GLY	B	340	-3.158	62.715	153.057	0.00	0.00	C
ATOM	16438	C	GLY	B	340	-3.673	62.735	151.680	0.00	0.00	C
ATOM	16439	O	GLY	B	340	-4.332	61.761	151.250	0.00	0.00	O
ATOM	16440	HN	GLY	B	340	-3.066	64.233	154.431	0.00	0.00	H
ATOM	16441	HCA	GLY	B	340	-2.071	62.817	153.020	0.00	0.00	H
ATOM	16442	HCA	GLY	B	340	-3.381	61.752	153.509	0.00	0.00	H
ATOM	16443	N	ASN	B	341	-3.489	63.845	150.936	0.00	0.00	N
ATOM	16444	CA	ASN	B	341	-3.949	64.034	149.593	0.00	0.00	C
ATOM	16445	C	ASN	B	341	-5.437	64.105	149.454	0.00	0.00	C
ATOM	16446	O	ASN	B	341	-5.893	64.223	148.294	0.00	0.00	O
ATOM	16447	CB	ASN	B	341	-3.263	62.981	148.662	0.00	0.00	C
ATOM	16448	CG	ASN	B	341	-3.096	63.346	147.245	0.00	0.00	C
ATOM	16449	ND2	ASN	B	341	-2.514	62.456	146.440	0.00	0.00	N
ATOM	16450	OD1	ASN	B	341	-3.448	64.447	146.763	0.00	0.00	O
ATOM	16451	HN	ASN	B	341	-2.996	64.570	151.350	0.00	0.00	H
ATOM	16452	HND2	ASN	B	341	-2.247	61.609	146.800	0.00	0.00	H
ATOM	16453	HND2	ASN	B	341	-2.365	62.663	145.510	0.00	0.00	H
ATOM	16454	HCA	ASN	B	341	-3.572	65.019	149.308	0.00	0.00	H
ATOM	16455	HCN	ASN	B	341	-2.258	62.772	149.037	0.00	0.00	H
ATOM	16456	HCN	ASN	B	341	-3.826	62.045	148.700	0.00	0.00	H
ATOM	16457	N	GLN	B	342	-6.312	64.091	150.497	0.00	0.00	N
ATOM	16458	CA	GLN	B	342	-7.739	64.281	150.404	0.00	0.00	C
ATOM	16459	C	GLN	B	342	-8.118	65.582	150.952	0.00	0.00	C
ATOM	16460	O	GLN	B	342	-7.777	65.883	152.092	0.00	0.00	O
ATOM	16461	CB	GLN	B	342	-8.503	63.142	151.142	0.00	0.00	C
ATOM	16462	CG	GLN	B	342	-8.159	61.720	150.623	0.00	0.00	C
ATOM	16463	CD	GLN	B	342	-9.036	60.686	151.200	0.00	0.00	C
ATOM	16464	NE2	GLN	B	342	-8.593	59.770	152.065	0.00	0.00	N
ATOM	16465	OE1	GLN	B	342	-10.237	60.595	150.876	0.00	0.00	O
ATOM	16466	HN	GLN	B	342	-5.993	63.932	151.386	0.00	0.00	H
ATOM	16467	HNE2	GLN	B	342	-7.667	59.780	152.349	0.00	0.00	H
ATOM	16468	HNE2	GLN	B	342	-9.211	59.122	152.433	0.00	0.00	H
ATOM	16469	HCA	GLN	B	342	-8.067	64.235	149.360	0.00	0.00	H
ATOM	16470	HCN	GLN	B	342	-8.289	63.183	152.214	0.00	0.00	H
ATOM	16471	HCN	GLN	B	342	-9.578	63.313	151.015	0.00	0.00	H
ATOM	16472	HCG	GLN	B	342	-8.257	61.681	149.536	0.00	0.00	H
ATOM	16473	HCG	GLN	B	342	-7.119	61.499	150.873	0.00	0.00	H
ATOM	16474	N	ALA	B	343	-8.865	66.402	150.232	0.00	0.00	N
ATOM	16475	CA	ALA	B	343	-9.465	67.626	150.681	0.00	0.00	C
ATOM	16476	C	ALA	B	343	-10.687	67.325	151.485	0.00	0.00	C
ATOM	16477	O	ALA	B	343	-11.631	66.695	150.954	0.00	0.00	O
ATOM	16478	CB	ALA	B	343	-9.757	68.510	149.443	0.00	0.00	C

ATOM	16479	HN	ALA	B	343	-9.083	66.116	149.333	0.00	0.00	H
ATOM	16480	HCA	ALA	B	343	-8.745	68.175	151.292	0.00	0.00	H
ATOM	16481	HCB	ALA	B	343	-10.481	68.028	148.781	0.00	0.00	H
ATOM	16482	HCB	ALA	B	343	-10.159	69.474	149.756	0.00	0.00	H
ATOM	16483	HCB	ALA	B	343	-8.838	68.691	148.882	0.00	0.00	H
ATOM	16484	N	VAL	B	344	-10.745	67.665	152.794	0.00	0.00	N
ATOM	16485	CA	VAL	B	344	-11.791	67.325	153.735	0.00	0.00	C
ATOM	16486	C	VAL	B	344	-12.279	68.506	154.503	0.00	0.00	C
ATOM	16487	O	VAL	B	344	-11.602	69.559	154.513	0.00	0.00	O
ATOM	16488	CB	VAL	B	344	-11.304	66.187	154.700	0.00	0.00	C
ATOM	16489	CG1	VAL	B	344	-11.055	64.848	153.951	0.00	0.00	C
ATOM	16490	CG2	VAL	B	344	-10.044	66.580	155.520	0.00	0.00	C
ATOM	16491	HN	VAL	B	344	-9.996	68.163	153.121	0.00	0.00	H
ATOM	16492	HCA	VAL	B	344	-12.665	66.954	153.191	0.00	0.00	H
ATOM	16493	HCB	VAL	B	344	-12.106	65.988	155.420	0.00	0.00	H
ATOM	16494	HCG1	VAL	B	344	-11.945	64.548	153.395	0.00	0.00	H
ATOM	16495	HCG1	VAL	B	344	-10.224	64.945	153.251	0.00	0.00	H
ATOM	16496	HCG1	VAL	B	344	-10.814	64.054	154.661	0.00	0.00	H
ATOM	16497	HCG2	VAL	B	344	-9.177	66.703	154.868	0.00	0.00	H
ATOM	16498	HCG2	VAL	B	344	-10.206	67.517	156.052	0.00	0.00	H
ATOM	16499	HCG2	VAL	B	344	-9.816	65.811	156.260	0.00	0.00	H
ATOM	16500	N	ARG	B	345	-13.429	68.426	155.220	0.00	0.00	N
ATOM	16501	CA	ARG	B	345	-14.020	69.468	156.022	0.00	0.00	C
ATOM	16502	C	ARG	B	345	-13.912	69.105	157.466	0.00	0.00	C
ATOM	16503	O	ARG	B	345	-14.495	68.064	157.855	0.00	0.00	O
ATOM	16504	CB	ARG	B	345	-15.511	69.722	155.631	0.00	0.00	C
ATOM	16505	CG	ARG	B	345	-15.804	69.924	154.112	0.00	0.00	C
ATOM	16506	CD	ARG	B	345	-16.300	68.643	153.394	0.00	0.00	C
ATOM	16507	NE	ARG	B	345	-16.660	68.948	152.049	0.00	0.00	N
ATOM	16508	CZ	ARG	B	345	-17.873	68.972	151.500	0.00	0.00	C
ATOM	16509	NH1	ARG	B	345	-19.026	68.706	152.089	0.00	0.00	N
ATOM	16510	NH2	ARG	B	345	-17.873	69.306	150.227	0.00	0.00	N
ATOM	16511	HN	ARG	B	345	-13.891	67.575	155.203	0.00	0.00	H
ATOM	16512	HNE	ARG	B	345	-15.978	69.164	151.408	0.00	0.00	H
ATOM	16513	HNH1	ARG	B	345	-19.062	68.480	153.024	0.00	0.00	H
ATOM	16514	HNH1	ARG	B	345	-19.820	68.726	151.556	0.00	0.00	H
ATOM	16515	HNH2	ARG	B	345	-17.006	69.458	149.845	0.00	0.00	H
ATOM	16516	HNH2	ARG	B	345	-18.691	69.397	149.741	0.00	0.00	H
ATOM	16517	HCA	ARG	B	345	-13.492	70.411	155.862	0.00	0.00	H
ATOM	16518	HCB	ARG	B	345	-16.139	68.911	156.012	0.00	0.00	H
ATOM	16519	HCB	ARG	B	345	-15.832	70.627	156.157	0.00	0.00	H
ATOM	16520	HCD	ARG	B	345	-15.504	67.895	153.374	0.00	0.00	H
ATOM	16521	HCD	ARG	B	345	-17.145	68.216	153.942	0.00	0.00	H
ATOM	16522	HCG	ARG	B	345	-16.587	70.682	154.012	0.00	0.00	H
ATOM	16523	HCG	ARG	B	345	-14.916	70.304	153.603	0.00	0.00	H
ATOM	16524	N	LEU	B	346	-13.215	69.867	158.347	0.00	0.00	N
ATOM	16525	CA	LEU	B	346	-13.026	69.585	159.758	0.00	0.00	C
ATOM	16526	C	LEU	B	346	-13.525	70.687	160.643	0.00	0.00	C
ATOM	16527	O	LEU	B	346	-13.272	71.853	160.267	0.00	0.00	O
ATOM	16528	CB	LEU	B	346	-11.522	69.333	160.069	0.00	0.00	C
ATOM	16529	CG	LEU	B	346	-10.841	68.142	159.326	0.00	0.00	C
ATOM	16530	CD1	LEU	B	346	-9.368	68.023	159.796	0.00	0.00	C
ATOM	16531	CD2	LEU	B	346	-11.550	66.773	159.519	0.00	0.00	C
ATOM	16532	HN	LEU	B	346	-12.809	70.654	157.979	0.00	0.00	H
ATOM	16533	HCA	LEU	B	346	-13.566	68.678	160.025	0.00	0.00	H
ATOM	16534	HCB	LEU	B	346	-10.971	70.247	159.823	0.00	0.00	H
ATOM	16535	HCB	LEU	B	346	-11.411	69.167	161.145	0.00	0.00	H
ATOM	16536	HCD1	LEU	B	346	-8.883	68.996	159.740	0.00	0.00	H
ATOM	16537	HCD1	LEU	B	346	-9.313	67.674	160.830	0.00	0.00	H
ATOM	16538	HCD1	LEU	B	346	-8.819	67.325	159.161	0.00	0.00	H
ATOM	16539	HCD2	LEU	B	346	-12.527	66.771	159.039	0.00	0.00	H
ATOM	16540	HCD2	LEU	B	346	-10.964	65.973	159.063	0.00	0.00	H
ATOM	16541	HCD2	LEU	B	346	-11.678	66.551	160.580	0.00	0.00	H
ATOM	16542	HCG	LEU	B	346	-10.833	68.373	158.256	0.00	0.00	H
ATOM	16543	N	PRO	B	347	-14.184	70.526	161.836	0.00	0.00	N
ATOM	16544	CA	PRO	B	347	-14.736	71.623	162.605	0.00	0.00	C
ATOM	16545	C	PRO	B	347	-13.789	72.638	163.095	0.00	0.00	C
ATOM	16546	O	PRO	B	347	-12.773	72.307	163.708	0.00	0.00	O
ATOM	16547	CB	PRO	B	347	-15.546	70.955	163.747	0.00	0.00	C
ATOM	16548	CG	PRO	B	347	-14.985	69.533	163.828	0.00	0.00	C
ATOM	16549	CD	PRO	B	347	-14.480	69.247	162.409	0.00	0.00	C
ATOM	16550	HCA	PRO	B	347	-15.467	72.109	161.953	0.00	0.00	H
ATOM	16551	HCB	PRO	B	347	-15.453	71.472	164.707	0.00	0.00	H
ATOM	16552	HCB	PRO	B	347	-16.608	70.910	163.483	0.00	0.00	H
ATOM	16553	HCD	PRO	B	347	-13.599	68.600	162.455	0.00	0.00	H
ATOM	16554	HCD	PRO	B	347	-15.264	68.753	161.827	0.00	0.00	H
ATOM	16555	HCG	PRO	B	347	-14.148	69.502	164.526	0.00	0.00	H
ATOM	16556	HCG	PRO	B	347	-15.741	68.810	164.146	0.00	0.00	H
ATOM	16557	N	LEU	B	348	-14.095	73.918	162.929	0.00	0.00	N
ATOM	16558	CA	LEU	B	348	-13.322	75.072	163.331	0.00	0.00	C



ATOM	16559	C	LEU	B	348	-13.014	75.040	164.783	0.00	0.00	C
ATOM	16560	O	LEU	B	348	-11.822	75.145	165.153	0.00	0.00	O
ATOM	16561	CB	LEU	B	348	-14.025	76.422	162.930	0.00	0.00	C
ATOM	16562	CG	LEU	B	348	-13.368	77.242	161.772	0.00	0.00	C
ATOM	16563	CD1	LEU	B	348	-14.283	78.406	161.301	0.00	0.00	C
ATOM	16564	CD2	LEU	B	348	-11.976	77.813	162.161	0.00	0.00	C
ATOM	16565	HN	LEU	B	348	-14.943	74.087	162.521	0.00	0.00	H
ATOM	16566	HCA	LEU	B	348	-12.371	74.999	162.806	0.00	0.00	H
ATOM	16567	HCN	LEU	B	348	-15.058	76.213	162.657	0.00	0.00	H
ATOM	16568	HCN	LEU	B	348	-14.084	77.089	163.793	0.00	0.00	H
ATOM	16569	HCD1	LEU	B	348	-15.190	78.010	160.845	0.00	0.00	H
ATOM	16570	HCD1	LEU	B	348	-14.557	79.050	162.140	0.00	0.00	H
ATOM	16571	HCD1	LEU	B	348	-13.779	79.015	160.546	0.00	0.00	H
ATOM	16572	HCD2	LEU	B	348	-11.288	77.021	162.449	0.00	0.00	H
ATOM	16573	HCD2	LEU	B	348	-11.537	78.341	161.313	0.00	0.00	H
ATOM	16574	HCD2	LEU	B	348	-12.063	78.513	162.993	0.00	0.00	H
ATOM	16575	HCG	LEU	B	348	-13.250	76.581	160.912	0.00	0.00	H
ATOM	16576	N	MET	B	349	-14.010	74.843	165.679	0.00	0.00	N
ATOM	16577	CA	MET	B	349	-13.862	74.707	167.102	0.00	0.00	C
ATOM	16578	C	MET	B	349	-12.748	73.796	167.483	0.00	0.00	C
ATOM	16579	O	MET	B	349	-11.820	74.232	168.203	0.00	0.00	O
ATOM	16580	CB	MET	B	349	-15.200	74.192	167.715	0.00	0.00	C
ATOM	16581	CG	MET	B	349	-16.341	75.237	167.666	0.00	0.00	C
ATOM	16582	SD	MET	B	349	-17.853	74.665	168.484	0.00	0.00	S
ATOM	16583	CE	MET	B	349	-18.525	73.623	167.170	0.00	0.00	C
ATOM	16584	HN	MET	B	349	-14.909	74.811	165.319	0.00	0.00	H
ATOM	16585	HCA	MET	B	349	-13.651	75.702	167.510	0.00	0.00	H
ATOM	16586	HCN	MET	B	349	-15.510	73.284	167.194	0.00	0.00	H
ATOM	16587	HCN	MET	B	349	-15.036	73.932	168.766	0.00	0.00	H
ATOM	16588	HCE	MET	B	349	-18.676	74.211	166.264	0.00	0.00	H
ATOM	16589	HCE	MET	B	349	-17.856	72.790	166.961	0.00	0.00	H
ATOM	16590	HCE	MET	B	349	-19.486	73.227	167.497	0.00	0.00	H
ATOM	16591	HCG	MET	B	349	-16.007	76.122	168.208	0.00	0.00	H
ATOM	16592	HCG	MET	B	349	-16.562	75.536	166.639	0.00	0.00	H
ATOM	16593	N	GLU	B	350	-12.717	72.525	167.020	0.00	0.00	N
ATOM	16594	CA	GLU	B	350	-11.698	71.561	167.321	0.00	0.00	C
ATOM	16595	C	GLU	B	350	-10.383	71.970	166.761	0.00	0.00	C
ATOM	16596	O	GLU	B	350	-9.386	71.962	167.523	0.00	0.00	O
ATOM	16597	CB	GLU	B	350	-12.112	70.146	166.833	0.00	0.00	C
ATOM	16598	CG	GLU	B	350	-13.392	69.609	167.542	0.00	0.00	C
ATOM	16599	CD	GLU	B	350	-13.707	68.208	167.220	0.00	0.00	C
ATOM	16600	OE1	GLU	B	350	-12.904	67.289	167.487	0.00	0.00	O
ATOM	16601	OE2	GLU	B	350	-14.800	67.887	166.708	0.00	0.00	O
ATOM	16602	HN	GLU	B	350	-13.421	72.260	166.410	0.00	0.00	H
ATOM	16603	HCA	GLU	B	350	-11.605	71.501	168.411	0.00	0.00	H
ATOM	16604	HCN	GLU	B	350	-12.263	70.164	165.751	0.00	0.00	H
ATOM	16605	HCN	GLU	B	350	-11.287	69.455	167.037	0.00	0.00	H
ATOM	16606	HCG	GLU	B	350	-13.262	69.668	168.625	0.00	0.00	H
ATOM	16607	HCG	GLU	B	350	-14.245	70.236	167.274	0.00	0.00	H
ATOM	16608	N	CYS	B	351	-10.254	72.391	165.477	0.00	0.00	N
ATOM	16609	CA	CYS	B	351	-9.004	72.848	164.910	0.00	0.00	C
ATOM	16610	C	CYS	B	351	-8.363	73.943	165.710	0.00	0.00	C
ATOM	16611	O	CYS	B	351	-7.175	73.833	166.112	0.00	0.00	O
ATOM	16612	CB	CYS	B	351	-9.209	73.291	163.438	0.00	0.00	C
ATOM	16613	SG	CYS	B	351	-9.814	71.974	162.361	0.00	0.00	S
ATOM	16614	HN	CYS	B	351	-11.044	72.381	164.920	0.00	0.00	H
ATOM	16615	HCA	CYS	B	351	-8.317	71.995	164.896	0.00	0.00	H
ATOM	16616	HCN	CYS	B	351	-9.901	74.132	163.381	0.00	0.00	H
ATOM	16617	HCN	CYS	B	351	-8.248	73.607	163.035	0.00	0.00	H
ATOM	16618	HSG	CYS	B	351	-11.043	72.026	162.905	0.00	0.00	H
ATOM	16619	N	VAL	B	352	-9.100	75.026	166.058	0.00	0.00	N
ATOM	16620	CA	VAL	B	352	-8.685	76.128	166.889	0.00	0.00	C
ATOM	16621	C	VAL	B	352	-8.311	75.661	168.256	0.00	0.00	C
ATOM	16622	O	VAL	B	352	-7.204	76.013	168.729	0.00	0.00	O
ATOM	16623	CB	VAL	B	352	-9.809	77.225	166.899	0.00	0.00	C
ATOM	16624	CG1	VAL	B	352	-9.573	78.345	167.951	0.00	0.00	C
ATOM	16625	CG2	VAL	B	352	-9.976	77.887	165.499	0.00	0.00	C
ATOM	16626	HN	VAL	B	352	-10.003	75.047	165.744	0.00	0.00	H
ATOM	16627	HCA	VAL	B	352	-7.799	76.576	166.428	0.00	0.00	H
ATOM	16628	HCN	VAL	B	352	-10.759	76.742	167.154	0.00	0.00	H
ATOM	16629	HCG1	VAL	B	352	-8.594	78.803	167.799	0.00	0.00	H
ATOM	16630	HCG1	VAL	B	352	-10.341	79.118	167.872	0.00	0.00	H
ATOM	16631	HCG1	VAL	B	352	-9.617	77.942	168.964	0.00	0.00	H
ATOM	16632	HCG2	VAL	B	352	-10.102	77.133	164.722	0.00	0.00	H
ATOM	16633	HCG2	VAL	B	352	-10.858	78.529	165.486	0.00	0.00	H
ATOM	16634	HCG2	VAL	B	352	-9.102	78.491	165.248	0.00	0.00	H
ATOM	16635	N	GLN	B	353	-9.123	74.862	168.991	0.00	0.00	N
ATOM	16636	CA	GLN	B	353	-8.804	74.295	170.276	0.00	0.00	C
ATOM	16637	C	GLN	B	353	-7.527	73.577	170.272	0.00	0.00	C
ATOM	16638	O	GLN	B	353	-6.668	73.922	171.072	0.00	0.00	O

ATOM	16639	CB	GLN	B	353	-9.995	73.397	170.726	0.00	0.00	C
ATOM	16640	CG	GLN	B	353	-9.864	72.802	172.156	0.00	0.00	C
ATOM	16641	CD	GLN	B	353	-11.030	71.980	172.528	0.00	0.00	C
ATOM	16642	NE2	GLN	B	353	-11.832	72.307	173.546	0.00	0.00	N
ATOM	16643	OE1	GLN	B	353	-11.313	70.938	171.899	0.00	0.00	O
ATOM	16644	HN	GLN	B	353	-9.994	74.662	168.646	0.00	0.00	H
ATOM	16645	HNE2	GLN	B	353	-11.660	73.105	174.066	0.00	0.00	H
ATOM	16646	HNE2	GLN	B	353	-12.587	71.740	173.756	0.00	0.00	H
ATOM	16647	HCA	GLN	B	353	-8.747	75.130	170.985	0.00	0.00	H
ATOM	16648	HCB	GLN	B	353	-10.911	73.997	170.695	0.00	0.00	H
ATOM	16649	HCB	GLN	B	353	-10.110	72.578	170.014	0.00	0.00	H
ATOM	16650	HCG	GLN	B	353	-8.980	72.166	172.215	0.00	0.00	H
ATOM	16651	HCG	GLN	B	353	-9.739	73.617	172.874	0.00	0.00	H
ATOM	16652	N	VAL	B	354	-7.267	72.624	169.392	0.00	0.00	N
ATOM	16653	CA	VAL	B	354	-6.017	71.903	169.277	0.00	0.00	C
ATOM	16654	C	VAL	B	354	-4.881	72.841	169.019	0.00	0.00	C
ATOM	16655	O	VAL	B	354	-3.860	72.786	169.753	0.00	0.00	O
ATOM	16656	CB	VAL	B	354	-6.136	70.748	168.223	0.00	0.00	C
ATOM	16657	CG1	VAL	B	354	-4.797	69.982	168.012	0.00	0.00	C
ATOM	16658	CG2	VAL	B	354	-7.220	69.702	168.624	0.00	0.00	C
ATOM	16659	HN	VAL	B	354	-7.966	72.406	168.772	0.00	0.00	H
ATOM	16660	HCA	VAL	B	354	-5.832	71.418	170.239	0.00	0.00	H
ATOM	16661	HCB	VAL	B	354	-6.428	71.190	167.264	0.00	0.00	H
ATOM	16662	HCG1	VAL	B	354	-4.488	69.484	168.932	0.00	0.00	H
ATOM	16663	HCG1	VAL	B	354	-4.908	69.227	167.230	0.00	0.00	H
ATOM	16664	HCG1	VAL	B	354	-3.998	70.657	167.711	0.00	0.00	H
ATOM	16665	HCG2	VAL	B	354	-6.922	69.161	169.525	0.00	0.00	H
ATOM	16666	HCG2	VAL	B	354	-8.179	70.175	168.826	0.00	0.00	H
ATOM	16667	HCG2	VAL	B	354	-7.367	68.980	167.818	0.00	0.00	H
ATOM	16668	N	THR	B	355	-4.953	73.791	168.051	0.00	0.00	N
ATOM	16669	CA	THR	B	355	-3.949	74.809	167.827	0.00	0.00	C
ATOM	16670	C	THR	B	355	-3.607	75.561	169.075	0.00	0.00	C
ATOM	16671	O	THR	B	355	-2.405	75.665	169.412	0.00	0.00	O
ATOM	16672	CB	THR	B	355	-4.371	75.755	166.662	0.00	0.00	C
ATOM	16673	CG2	THR	B	355	-3.307	76.819	166.308	0.00	0.00	C
ATOM	16674	OG1	THR	B	355	-4.613	74.989	165.479	0.00	0.00	O
ATOM	16675	HN	THR	B	355	-5.719	73.785	167.469	0.00	0.00	H
ATOM	16676	HCA	THR	B	355	-3.047	74.287	167.489	0.00	0.00	H
ATOM	16677	HCB	THR	B	355	-5.294	76.278	166.925	0.00	0.00	H
ATOM	16678	HCG2	THR	B	355	-2.349	76.342	166.109	0.00	0.00	H
ATOM	16679	HCG2	THR	B	355	-3.612	77.377	165.422	0.00	0.00	H
ATOM	16680	HCG2	THR	B	355	-3.182	77.529	167.128	0.00	0.00	H
ATOM	16681	HOG1	THR	B	355	-5.470	74.568	165.651	0.00	0.00	H
ATOM	16682	N	LYS	B	356	-4.561	76.087	169.881	0.00	0.00	N
ATOM	16683	CA	LYS	B	356	-4.318	76.688	171.173	0.00	0.00	C
ATOM	16684	C	LYS	B	356	-3.704	75.749	172.164	0.00	0.00	C
ATOM	16685	O	LYS	B	356	-2.755	76.158	172.881	0.00	0.00	O
ATOM	16686	CB	LYS	B	356	-5.622	77.322	171.739	0.00	0.00	C
ATOM	16687	CG	LYS	B	356	-6.090	78.572	170.944	0.00	0.00	C
ATOM	16688	CD	LYS	B	356	-7.308	79.274	171.600	0.00	0.00	C
ATOM	16689	CE	LYS	B	356	-7.755	80.521	170.804	0.00	0.00	C
ATOM	16690	NZ	LYS	B	356	-8.892	81.183	171.450	0.00	0.00	N
ATOM	16691	HN	LYS	B	356	-5.460	76.041	169.554	0.00	0.00	H
ATOM	16692	HNZ	LYS	B	356	-9.635	80.504	171.620	0.00	0.00	H
ATOM	16693	HNZ	LYS	B	356	-8.597	81.586	172.340	0.00	0.00	H
ATOM	16694	HNZ	LYS	B	356	-9.248	81.920	170.844	0.00	0.00	H
ATOM	16695	HCA	LYS	B	356	-3.603	77.505	171.021	0.00	0.00	H
ATOM	16696	HCB	LYS	B	356	-6.420	76.575	171.747	0.00	0.00	H
ATOM	16697	HCB	LYS	B	356	-5.445	77.629	172.775	0.00	0.00	H
ATOM	16698	HCD	LYS	B	356	-8.142	78.569	171.659	0.00	0.00	H
ATOM	16699	HCD	LYS	B	356	-7.045	79.580	172.617	0.00	0.00	H
ATOM	16700	HCE	LYS	B	356	-6.934	81.238	170.727	0.00	0.00	H
ATOM	16701	HCE	LYS	B	356	-8.051	80.223	169.798	0.00	0.00	H
ATOM	16702	HCG	LYS	B	356	-5.264	79.288	170.884	0.00	0.00	H
ATOM	16703	HCG	LYS	B	356	-6.350	78.275	169.924	0.00	0.00	H
ATOM	16704	N	ASP	B	357	-4.142	74.473	172.311	0.00	0.00	N
ATOM	16705	CA	ASP	B	357	-3.520	73.469	173.138	0.00	0.00	C
ATOM	16706	C	ASP	B	357	-2.052	73.339	172.889	0.00	0.00	C
ATOM	16707	O	ASP	B	357	-1.292	73.306	173.888	0.00	0.00	O
ATOM	16708	CB	ASP	B	357	-4.244	72.091	173.083	0.00	0.00	C
ATOM	16709	CG	ASP	B	357	-5.680	72.099	173.427	0.00	0.00	C
ATOM	16710	OD1	ASP	B	357	-6.131	72.711	174.421	0.00	0.00	O
ATOM	16711	OD2	ASP	B	357	-6.490	71.410	172.773	0.00	0.00	O
ATOM	16712	HN	ASP	B	357	-4.948	74.240	171.850	0.00	0.00	H
ATOM	16713	HCA	ASP	B	357	-3.627	73.814	174.164	0.00	0.00	H
ATOM	16714	HCB	ASP	B	357	-4.115	71.648	172.096	0.00	0.00	H
ATOM	16715	HCB	ASP	B	357	-3.769	71.422	173.803	0.00	0.00	H
ATOM	16716	N	VAL	B	358	-1.528	73.352	171.634	0.00	0.00	N
ATOM	16717	CA	VAL	B	358	-0.103	73.431	171.339	0.00	0.00	C
ATOM	16718	C	VAL	B	358	0.587	74.520	172.106	0.00	0.00	C

ATOM	16719	O	VAL	B	358	1.691	74.278	172.647	0.00	0.00	O
ATOM	16720	CB	VAL	B	358	0.249	73.600	169.815	0.00	0.00	C
ATOM	16721	CG1	VAL	B	358	1.784	73.538	169.538	0.00	0.00	C
ATOM	16722	CG2	VAL	B	358	-0.432	72.555	168.895	0.00	0.00	C
ATOM	16723	HN	VAL	B	358	-2.175	73.286	170.919	0.00	0.00	H
ATOM	16724	HCA	VAL	B	358	0.324	72.474	171.657	0.00	0.00	H
ATOM	16725	HCB	VAL	B	358	-0.096	74.588	169.492	0.00	0.00	H
ATOM	16726	HCG1	VAL	B	358	2.202	72.587	169.878	0.00	0.00	H
ATOM	16727	HCG1	VAL	B	358	1.990	73.646	168.474	0.00	0.00	H
ATOM	16728	HCG1	VAL	B	358	2.310	74.348	170.043	0.00	0.00	H
ATOM	16729	HCG2	VAL	B	358	-1.509	72.564	169.020	0.00	0.00	H
ATOM	16730	HCG2	VAL	B	358	-0.222	72.783	167.849	0.00	0.00	H
ATOM	16731	HCG2	VAL	B	358	-0.061	71.554	169.109	0.00	0.00	H
ATOM	16732	N	THR	B	359	0.039	75.750	172.243	0.00	0.00	N
ATOM	16733	CA	THR	B	359	0.662	76.899	172.853	0.00	0.00	C
ATOM	16734	C	THR	B	359	0.584	76.782	174.329	0.00	0.00	C
ATOM	16735	O	THR	B	359	1.608	76.983	175.023	0.00	0.00	O
ATOM	16736	CB	THR	B	359	0.007	78.217	172.341	0.00	0.00	C
ATOM	16737	CG2	THR	B	359	0.658	79.504	172.903	0.00	0.00	C
ATOM	16738	OG1	THR	B	359	0.127	78.273	170.921	0.00	0.00	O
ATOM	16739	HN	THR	B	359	-0.889	75.847	172.010	0.00	0.00	H
ATOM	16740	HCA	THR	B	359	1.715	76.929	172.552	0.00	0.00	H
ATOM	16741	HCB	THR	B	359	-1.058	78.224	172.594	0.00	0.00	H
ATOM	16742	HCG2	THR	B	359	1.726	79.519	172.681	0.00	0.00	H
ATOM	16743	HCG2	THR	B	359	0.197	80.386	172.455	0.00	0.00	H
ATOM	16744	HCG2	THR	B	359	0.525	79.564	173.985	0.00	0.00	H
ATOM	16745	HOG1	THR	B	359	-0.332	79.098	170.651	0.00	0.00	H
ATOM	16746	N	LYS	B	360	-0.562	76.396	174.939	0.00	0.00	N
ATOM	16747	CA	LYS	B	360	-0.654	76.111	176.354	0.00	0.00	C
ATOM	16748	C	LYS	B	360	0.356	75.084	176.764	0.00	0.00	C
ATOM	16749	O	LYS	B	360	1.102	75.296	177.750	0.00	0.00	O
ATOM	16750	CB	LYS	B	360	-2.092	75.675	176.742	0.00	0.00	C
ATOM	16751	CG	LYS	B	360	-3.148	76.816	176.619	0.00	0.00	C
ATOM	16752	CD	LYS	B	360	-4.602	76.391	176.980	0.00	0.00	C
ATOM	16753	CE	LYS	B	360	-5.139	75.290	176.042	0.00	0.00	C
ATOM	16754	NZ	LYS	B	360	-6.543	74.938	176.213	0.00	0.00	N
ATOM	16755	HN	LYS	B	360	-1.328	76.282	174.362	0.00	0.00	H
ATOM	16756	HNZ	LYS	B	360	-7.152	75.695	175.902	0.00	0.00	H
ATOM	16757	HNZ	LYS	B	360	-6.642	74.131	175.613	0.00	0.00	H
ATOM	16758	HNZ	LYS	B	360	-6.740	74.684	177.180	0.00	0.00	H
ATOM	16759	HCA	LYS	B	360	-0.434	77.036	176.899	0.00	0.00	H
ATOM	16760	HCB	LYS	B	360	-2.361	74.833	176.105	0.00	0.00	H
ATOM	16761	HCB	LYS	B	360	-2.094	75.324	177.779	0.00	0.00	H
ATOM	16762	HCD	LYS	B	360	-4.637	76.038	178.014	0.00	0.00	H
ATOM	16763	HCD	LYS	B	360	-5.252	77.267	176.902	0.00	0.00	H
ATOM	16764	HCE	LYS	B	360	-5.003	75.597	175.003	0.00	0.00	H
ATOM	16765	HCE	LYS	B	360	-4.585	74.368	176.222	0.00	0.00	H
ATOM	16766	HCG	LYS	B	360	-2.860	77.632	177.288	0.00	0.00	H
ATOM	16767	HCG	LYS	B	360	-3.139	77.213	175.600	0.00	0.00	H
ATOM	16768	N	ALA	B	361	0.541	73.968	176.021	0.00	0.00	N
ATOM	16769	CA	ALA	B	361	1.575	72.992	176.224	0.00	0.00	C
ATOM	16770	C	ALA	B	361	2.982	73.471	176.031	0.00	0.00	C
ATOM	16771	O	ALA	B	361	3.904	72.677	176.332	0.00	0.00	O
ATOM	16772	CB	ALA	B	361	1.245	71.790	175.306	0.00	0.00	C
ATOM	16773	HN	ALA	B	361	-0.064	73.808	175.295	0.00	0.00	H
ATOM	16774	HCA	ALA	B	361	1.491	72.638	177.256	0.00	0.00	H
ATOM	16775	HCB	ALA	B	361	0.237	71.421	175.506	0.00	0.00	H
ATOM	16776	HCB	ALA	B	361	1.312	72.077	174.256	0.00	0.00	H
ATOM	16777	HCB	ALA	B	361	1.944	70.976	175.492	0.00	0.00	H
ATOM	16778	N	MET	B	362	3.295	74.720	175.598	0.00	0.00	N
ATOM	16779	CA	MET	B	362	4.608	75.314	175.519	0.00	0.00	C
ATOM	16780	C	MET	B	362	4.766	76.272	176.644	0.00	0.00	C
ATOM	16781	O	MET	B	362	5.867	76.359	177.236	0.00	0.00	O
ATOM	16782	CB	MET	B	362	4.795	76.071	174.174	0.00	0.00	C
ATOM	16783	CG	MET	B	362	4.969	75.152	172.940	0.00	0.00	C
ATOM	16784	SD	MET	B	362	4.649	75.977	171.358	0.00	0.00	S
ATOM	16785	CE	MET	B	362	5.762	77.387	171.521	0.00	0.00	C
ATOM	16786	HN	MET	B	362	2.591	75.330	175.383	0.00	0.00	H
ATOM	16787	HCA	MET	B	362	5.392	74.555	175.600	0.00	0.00	H
ATOM	16788	HCB	MET	B	362	3.945	76.736	174.011	0.00	0.00	H
ATOM	16789	HCB	MET	B	362	5.690	76.697	174.248	0.00	0.00	H
ATOM	16790	HCE	MET	B	362	6.744	77.055	171.857	0.00	0.00	H
ATOM	16791	HCE	MET	B	362	5.855	77.874	170.554	0.00	0.00	H
ATOM	16792	HCE	MET	B	362	5.357	78.108	172.231	0.00	0.00	H
ATOM	16793	HCG	MET	B	362	5.979	74.735	172.927	0.00	0.00	H
ATOM	16794	HCG	MET	B	362	4.267	74.324	173.003	0.00	0.00	H
ATOM	16795	N	ASP	B	363	3.724	77.045	177.034	0.00	0.00	N
ATOM	16796	CA	ASP	B	363	3.671	77.808	178.254	0.00	0.00	C
ATOM	16797	C	ASP	B	363	3.952	76.931	179.433	0.00	0.00	C
ATOM	16798	O	ASP	B	363	4.812	77.282	180.275	0.00	0.00	O

ATOM	16799	CB	ASP	B	363	2.295	78.524	178.380	0.00	0.00	C
ATOM	16800	CG	ASP	B	363	1.963	79.467	177.297	0.00	0.00	C
ATOM	16801	OD1	ASP	B	363	2.760	79.764	176.382	0.00	0.00	O
ATOM	16802	OD2	ASP	B	363	0.841	80.015	177.283	0.00	0.00	O
ATOM	16803	HN	ASP	B	363	2.970	77.056	176.441	0.00	0.00	H
ATOM	16804	HCA	ASP	B	363	4.447	78.581	178.207	0.00	0.00	H
ATOM	16805	HCB	ASP	B	363	1.502	77.779	178.427	0.00	0.00	H
ATOM	16806	HCB	ASP	B	363	2.274	79.090	179.314	0.00	0.00	H
ATOM	16807	N	GLU	B	364	3.345	75.723	179.544	0.00	0.00	N
ATOM	16808	CA	GLU	B	364	3.743	74.673	180.447	0.00	0.00	C
ATOM	16809	C	GLU	B	364	5.105	74.129	180.160	0.00	0.00	C
ATOM	16810	O	GLU	B	364	5.516	74.041	178.980	0.00	0.00	O
ATOM	16811	CB	GLU	B	364	2.743	73.485	180.360	0.00	0.00	C
ATOM	16812	CG	GLU	B	364	1.312	73.785	180.884	0.00	0.00	C
ATOM	16813	CD	GLU	B	364	0.447	72.598	180.786	0.00	0.00	C
ATOM	16814	OE1	GLU	B	364	0.764	71.535	181.361	0.00	0.00	O
ATOM	16815	OE2	GLU	B	364	-0.610	72.594	180.123	0.00	0.00	O
ATOM	16816	HN	GLU	B	364	2.629	75.547	178.931	0.00	0.00	H
ATOM	16817	HCA	GLU	B	364	3.730	75.066	181.469	0.00	0.00	H
ATOM	16818	HCB	GLU	B	364	2.682	73.148	179.321	0.00	0.00	H
ATOM	16819	HCB	GLU	B	364	3.135	72.650	180.952	0.00	0.00	H
ATOM	16820	HCG	GLU	B	364	1.360	74.083	181.934	0.00	0.00	H
ATOM	16821	HCG	GLU	B	364	0.869	74.607	180.319	0.00	0.00	H
ATOM	16822	N	LYS	B	365	5.842	73.595	181.163	0.00	0.00	N
ATOM	16823	CA	LYS	B	365	7.091	72.890	181.008	0.00	0.00	C
ATOM	16824	C	LYS	B	365	6.963	71.578	180.299	0.00	0.00	C
ATOM	16825	O	LYS	B	365	8.005	70.971	179.948	0.00	0.00	O
ATOM	16826	CB	LYS	B	365	7.715	72.668	182.420	0.00	0.00	C
ATOM	16827	CG	LYS	B	365	8.059	73.973	183.191	0.00	0.00	C
ATOM	16828	CD	LYS	B	365	8.615	73.679	184.612	0.00	0.00	C
ATOM	16829	CE	LYS	B	365	8.931	74.963	185.414	0.00	0.00	C
ATOM	16830	NZ	LYS	B	365	9.405	74.624	186.759	0.00	0.00	N
ATOM	16831	HN	LYS	B	365	5.479	73.667	182.058	0.00	0.00	H
ATOM	16832	HNZ	LYS	B	365	8.688	74.094	187.253	0.00	0.00	H
ATOM	16833	HNZ	LYS	B	365	10.252	74.062	186.695	0.00	0.00	H
ATOM	16834	HNZ	LYS	B	365	9.607	75.477	187.279	0.00	0.00	H
ATOM	16835	HCA	LYS	B	365	7.770	73.518	180.424	0.00	0.00	H
ATOM	16836	HCB	LYS	B	365	7.021	72.071	183.021	0.00	0.00	H
ATOM	16837	HCB	LYS	B	365	8.638	72.090	182.315	0.00	0.00	H
ATOM	16838	HCD	LYS	B	365	7.878	73.093	185.169	0.00	0.00	H
ATOM	16839	HCD	LYS	B	365	9.527	73.083	184.527	0.00	0.00	H
ATOM	16840	HCE	LYS	B	365	9.703	75.544	184.904	0.00	0.00	H
ATOM	16841	HCE	LYS	B	365	8.033	75.579	185.507	0.00	0.00	H
ATOM	16842	HCG	LYS	B	365	8.801	74.542	182.621	0.00	0.00	H
ATOM	16843	HCG	LYS	B	365	7.161	74.590	183.286	0.00	0.00	H
ATOM	16844	N	ARG	B	366	5.750	71.025	180.048	0.00	0.00	N
ATOM	16845	CA	ARG	B	366	5.495	69.726	179.481	0.00	0.00	C
ATOM	16846	C	ARG	B	366	5.600	69.750	177.993	0.00	0.00	C
ATOM	16847	O	ARG	B	366	4.662	69.396	177.242	0.00	0.00	O
ATOM	16848	CB	ARG	B	366	4.134	69.194	180.030	0.00	0.00	C
ATOM	16849	CG	ARG	B	366	4.087	69.094	181.585	0.00	0.00	C
ATOM	16850	CD	ARG	B	366	2.921	68.236	182.135	0.00	0.00	C
ATOM	16851	NE	ARG	B	366	1.650	68.839	181.898	0.00	0.00	N
ATOM	16852	CZ	ARG	B	366	0.463	68.241	181.993	0.00	0.00	C
ATOM	16853	NH1	ARG	B	366	0.259	66.969	182.298	0.00	0.00	N
ATOM	16854	NH2	ARG	B	366	-0.560	69.041	181.762	0.00	0.00	N
ATOM	16855	HN	ARG	B	366	4.978	71.561	180.274	0.00	0.00	H
ATOM	16856	HNE	ARG	B	366	1.571	69.776	181.700	0.00	0.00	H
ATOM	16857	HNH1	ARG	B	366	1.012	66.392	182.474	0.00	0.00	H
ATOM	16858	HNH1	ARG	B	366	-0.640	66.624	182.348	0.00	0.00	H
ATOM	16859	HNH2	ARG	B	366	-0.328	69.950	181.569	0.00	0.00	H
ATOM	16860	HNH2	ARG	B	366	-1.473	68.734	181.797	0.00	0.00	H
ATOM	16861	HCA	ARG	B	366	6.264	69.025	179.825	0.00	0.00	H
ATOM	16862	HCB	ARG	B	366	3.321	69.840	179.686	0.00	0.00	H
ATOM	16863	HCB	ARG	B	366	3.968	68.198	179.609	0.00	0.00	H
ATOM	16864	HCD	ARG	B	366	2.970	67.241	181.681	0.00	0.00	H
ATOM	16865	HCD	ARG	B	366	3.051	68.119	183.215	0.00	0.00	H
ATOM	16866	HCG	ARG	B	366	5.018	68.641	181.939	0.00	0.00	H
ATOM	16867	HCG	ARG	B	366	4.026	70.097	182.018	0.00	0.00	H
ATOM	16868	N	PHE	B	367	6.776	70.131	177.454	0.00	0.00	N
ATOM	16869	CA	PHE	B	367	7.101	70.209	176.049	0.00	0.00	C
ATOM	16870	C	PHE	B	367	6.894	68.941	175.288	0.00	0.00	C
ATOM	16871	O	PHE	B	367	6.753	68.969	174.041	0.00	0.00	O
ATOM	16872	CB	PHE	B	367	8.567	70.706	175.886	0.00	0.00	C
ATOM	16873	CG	PHE	B	367	8.803	72.042	176.499	0.00	0.00	C
ATOM	16874	CD1	PHE	B	367	8.218	73.197	175.930	0.00	0.00	C
ATOM	16875	CD2	PHE	B	367	9.600	72.187	177.659	0.00	0.00	C
ATOM	16876	CE1	PHE	B	367	8.402	74.458	176.523	0.00	0.00	C
ATOM	16877	CE2	PHE	B	367	9.774	73.449	178.258	0.00	0.00	C
ATOM	16878	CZ	PHE	B	367	9.173	74.586	177.692	0.00	0.00	C

ATOM	16879	HN	PHE	B	367	7.403	70.421	178.121	0.00	0.00	H
ATOM	16880	HCA	PHE	B	367	6.427	70.952	175.612	0.00	0.00	H
ATOM	16881	HCN	PHE	B	367	9.239	69.960	176.321	0.00	0.00	H
ATOM	16882	HCN	PHE	B	367	8.814	70.772	174.823	0.00	0.00	H
ATOM	16883	HCD1	PHE	B	367	7.653	73.126	175.080	0.00	0.00	H
ATOM	16884	HCD2	PHE	B	367	10.048	71.372	178.084	0.00	0.00	H
ATOM	16885	HCE1	PHE	B	367	7.971	75.282	176.105	0.00	0.00	H
ATOM	16886	HCE2	PHE	B	367	10.332	73.541	179.108	0.00	0.00	H
ATOM	16887	HCZ	PHE	B	367	9.296	75.503	178.127	0.00	0.00	H
ATOM	16888	N	ASP	B	368	6.798	67.752	175.926	0.00	0.00	N
ATOM	16889	CA	ASP	B	368	6.493	66.495	175.318	0.00	0.00	C
ATOM	16890	C	ASP	B	368	5.071	66.434	174.857	0.00	0.00	C
ATOM	16891	O	ASP	B	368	4.758	65.719	173.871	0.00	0.00	O
ATOM	16892	CB	ASP	B	368	6.880	65.385	176.338	0.00	0.00	C
ATOM	16893	CG	ASP	B	368	6.009	65.331	177.526	0.00	0.00	C
ATOM	16894	OD1	ASP	B	368	5.995	66.281	178.340	0.00	0.00	O
ATOM	16895	OD2	ASP	B	368	5.253	64.350	177.713	0.00	0.00	O
ATOM	16896	HN	ASP	B	368	6.851	67.733	176.892	0.00	0.00	H
ATOM	16897	HCA	ASP	B	368	7.150	66.371	174.452	0.00	0.00	H
ATOM	16898	HCN	ASP	B	368	6.878	64.421	175.832	0.00	0.00	H
ATOM	16899	HCN	ASP	B	368	7.905	65.544	176.683	0.00	0.00	H
ATOM	16900	N	GLU	B	369	4.126	67.185	175.474	0.00	0.00	N
ATOM	16901	CA	GLU	B	369	2.745	67.301	175.114	0.00	0.00	C
ATOM	16902	C	GLU	B	369	2.642	68.196	173.932	0.00	0.00	C
ATOM	16903	O	GLU	B	369	1.937	67.839	172.960	0.00	0.00	O
ATOM	16904	CB	GLU	B	369	1.957	67.809	176.359	0.00	0.00	C
ATOM	16905	CG	GLU	B	369	0.411	67.824	176.206	0.00	0.00	C
ATOM	16906	CD	GLU	B	369	-0.191	66.495	176.008	0.00	0.00	C
ATOM	16907	OE1	GLU	B	369	-0.081	65.608	176.880	0.00	0.00	O
ATOM	16908	OE2	GLU	B	369	-0.833	66.223	174.972	0.00	0.00	O
ATOM	16909	HN	GLU	B	369	4.410	67.800	176.152	0.00	0.00	H
ATOM	16910	HCA	GLU	B	369	2.358	66.313	174.858	0.00	0.00	H
ATOM	16911	HCN	GLU	B	369	2.210	67.180	177.220	0.00	0.00	H
ATOM	16912	HCN	GLU	B	369	2.276	68.824	176.604	0.00	0.00	H
ATOM	16913	HCG	GLU	B	369	-0.030	68.252	177.109	0.00	0.00	H
ATOM	16914	HCG	GLU	B	369	0.140	68.473	175.374	0.00	0.00	H
ATOM	16915	N	ALA	B	370	3.386	69.330	173.865	0.00	0.00	N
ATOM	16916	CA	ALA	B	370	3.532	70.151	172.692	0.00	0.00	C
ATOM	16917	C	ALA	B	370	4.028	69.365	171.530	0.00	0.00	C
ATOM	16918	O	ALA	B	370	3.376	69.411	170.461	0.00	0.00	O
ATOM	16919	CB	ALA	B	370	4.458	71.356	172.971	0.00	0.00	C
ATOM	16920	HN	ALA	B	370	3.879	69.569	174.665	0.00	0.00	H
ATOM	16921	HCA	ALA	B	370	2.544	70.558	172.447	0.00	0.00	H
ATOM	16922	HCN	ALA	B	370	4.074	71.935	173.809	0.00	0.00	H
ATOM	16923	HCN	ALA	B	370	5.473	71.037	173.203	0.00	0.00	H
ATOM	16924	HCN	ALA	B	370	4.495	72.006	172.094	0.00	0.00	H
ATOM	16925	N	MET	B	371	5.120	68.564	171.643	0.00	0.00	N
ATOM	16926	CA	MET	B	371	5.549	67.621	170.641	0.00	0.00	C
ATOM	16927	C	MET	B	371	4.464	66.696	170.206	0.00	0.00	C
ATOM	16928	O	MET	B	371	4.159	66.685	168.990	0.00	0.00	O
ATOM	16929	CB	MET	B	371	6.789	66.807	171.122	0.00	0.00	C
ATOM	16930	CG	MET	B	371	8.140	67.541	170.943	0.00	0.00	C
ATOM	16931	SD	MET	B	371	8.580	67.818	169.206	0.00	0.00	S
ATOM	16932	CE	MET	B	371	9.054	66.143	168.733	0.00	0.00	C
ATOM	16933	HN	MET	B	371	5.643	68.654	172.444	0.00	0.00	H
ATOM	16934	HCA	MET	B	371	5.840	68.212	169.767	0.00	0.00	H
ATOM	16935	HCN	MET	B	371	6.664	66.562	172.175	0.00	0.00	H
ATOM	16936	HCN	MET	B	371	6.851	65.854	170.593	0.00	0.00	H
ATOM	16937	HCE	MET	B	371	8.181	65.494	168.691	0.00	0.00	H
ATOM	16938	HCE	MET	B	371	9.505	66.183	167.743	0.00	0.00	H
ATOM	16939	HCE	MET	B	371	9.781	65.741	169.438	0.00	0.00	H
ATOM	16940	HCG	MET	B	371	8.080	68.513	171.431	0.00	0.00	H
ATOM	16941	HCG	MET	B	371	8.939	66.980	171.432	0.00	0.00	H
ATOM	16942	N	LYS	B	372	3.790	65.893	171.070	0.00	0.00	N
ATOM	16943	CA	LYS	B	372	2.686	65.037	170.688	0.00	0.00	C
ATOM	16944	C	LYS	B	372	1.662	65.768	169.881	0.00	0.00	C
ATOM	16945	O	LYS	B	372	1.397	65.379	168.715	0.00	0.00	O
ATOM	16946	CB	LYS	B	372	2.040	64.384	171.946	0.00	0.00	C
ATOM	16947	CG	LYS	B	372	2.946	63.324	172.637	0.00	0.00	C
ATOM	16948	CD	LYS	B	372	2.497	63.011	174.095	0.00	0.00	C
ATOM	16949	CE	LYS	B	372	3.564	62.261	174.926	0.00	0.00	C
ATOM	16950	NZ	LYS	B	372	4.755	63.091	175.144	0.00	0.00	N
ATOM	16951	HN	LYS	B	372	4.084	65.878	171.986	0.00	0.00	H
ATOM	16952	HNZ	LYS	B	372	4.713	63.938	174.604	0.00	0.00	H
ATOM	16953	HNZ	LYS	B	372	4.845	63.397	176.101	0.00	0.00	H
ATOM	16954	HNZ	LYS	B	372	5.592	62.570	174.885	0.00	0.00	H
ATOM	16955	HCA	LYS	B	372	3.090	64.231	170.066	0.00	0.00	H
ATOM	16956	HCN	LYS	B	372	1.786	65.178	172.652	0.00	0.00	H
ATOM	16957	HCN	LYS	B	372	1.105	63.889	171.666	0.00	0.00	H
ATOM	16958	HCD	LYS	B	372	2.251	63.933	174.626	0.00	0.00	H

ATOM	16959	HCD	LYS	B	372	1.589	62.404	174.059	0.00	0.00		H
ATOM	16960	HCE	LYS	B	372	3.148	61.986	175.899	0.00	0.00		H
ATOM	16961	HCE	LYS	B	372	3.856	61.344	174.409	0.00	0.00		H
ATOM	16962	HCG	LYS	B	372	2.926	62.401	172.050	0.00	0.00		H
ATOM	16963	HCG	LYS	B	372	3.978	63.675	172.631	0.00	0.00		H
ATOM	16964	N	LEU	B	373	1.104	66.905	170.362	0.00	0.00		N
ATOM	16965	CA	LEU	B	373	0.152	67.733	169.672	0.00	0.00		C
ATOM	16966	C	LEU	B	373	0.642	68.314	168.386	0.00	0.00		C
ATOM	16967	O	LEU	B	373	-0.197	68.944	167.696	0.00	0.00		O
ATOM	16968	CB	LEU	B	373	-0.331	68.863	170.637	0.00	0.00		C
ATOM	16969	CG	LEU	B	373	-1.210	68.408	171.846	0.00	0.00		C
ATOM	16970	CD1	LEU	B	373	-1.236	69.514	172.935	0.00	0.00		C
ATOM	16971	CD2	LEU	B	373	-2.667	68.074	171.420	0.00	0.00		C
ATOM	16972	HN	LEU	B	373	1.384	67.194	171.231	0.00	0.00		H
ATOM	16973	HCA	LEU	B	373	-0.703	67.103	169.413	0.00	0.00		H
ATOM	16974	HC	LEU	B	373	0.559	69.384	171.002	0.00	0.00		H
ATOM	16975	HC	LEU	B	373	-0.918	69.597	170.080	0.00	0.00		H
ATOM	16976	HCD1	LEU	B	373	-0.225	69.724	173.287	0.00	0.00		H
ATOM	16977	HCD1	LEU	B	373	-1.657	70.436	172.533	0.00	0.00		H
ATOM	16978	HCD1	LEU	B	373	-1.836	69.196	173.790	0.00	0.00		H
ATOM	16979	HCD2	LEU	B	373	-3.159	68.957	171.007	0.00	0.00		H
ATOM	16980	HCD2	LEU	B	373	-2.685	67.284	170.668	0.00	0.00		H
ATOM	16981	HCD2	LEU	B	373	-3.244	67.728	172.280	0.00	0.00		H
ATOM	16982	HCG	LEU	B	373	-0.770	67.511	172.294	0.00	0.00		H
ATOM	16983	N	ARG	B	374	1.907	68.155	167.914	0.00	0.00		N
ATOM	16984	CA	ARG	B	374	2.397	68.618	166.645	0.00	0.00		C
ATOM	16985	C	ARG	B	374	2.516	67.502	165.667	0.00	0.00		C
ATOM	16986	O	ARG	B	374	2.811	67.798	164.485	0.00	0.00		O
ATOM	16987	CB	ARG	B	374	3.722	69.420	166.878	0.00	0.00		C
ATOM	16988	CG	ARG	B	374	3.955	70.634	165.929	0.00	0.00		C
ATOM	16989	CD	ARG	B	374	2.798	71.673	165.940	0.00	0.00		C
ATOM	16990	NE	ARG	B	374	3.207	73.045	165.886	0.00	0.00		N
ATOM	16991	CZ	ARG	B	374	2.348	74.049	165.646	0.00	0.00		C
ATOM	16992	NH1	ARG	B	374	1.114	73.849	165.195	0.00	0.00		N
ATOM	16993	NH2	ARG	B	374	2.633	75.324	165.858	0.00	0.00		N
ATOM	16994	HN	ARG	B	374	2.553	67.662	168.424	0.00	0.00		H
ATOM	16995	HNE	ARG	B	374	4.129	73.240	166.088	0.00	0.00		H
ATOM	16996	HNH1	ARG	B	374	0.778	72.955	165.076	0.00	0.00		H
ATOM	16997	HNH1	ARG	B	374	0.559	74.587	164.963	0.00	0.00		H
ATOM	16998	HNH2	ARG	B	374	3.429	75.626	166.297	0.00	0.00		H
ATOM	16999	HNH2	ARG	B	374	1.962	75.970	165.611	0.00	0.00		H
ATOM	17000	HCA	ARG	B	374	1.658	69.284	166.198	0.00	0.00		H
ATOM	17001	HC	ARG	B	374	3.733	69.821	167.895	0.00	0.00		H
ATOM	17002	HC	ARG	B	374	4.578	68.742	166.806	0.00	0.00		H
ATOM	17003	HCD	ARG	B	374	2.143	71.434	165.096	0.00	0.00		H
ATOM	17004	HCD	ARG	B	374	2.213	71.561	166.858	0.00	0.00		H
ATOM	17005	HCG	ARG	B	374	4.889	71.112	166.226	0.00	0.00		H
ATOM	17006	HCG	ARG	B	374	4.096	70.269	164.909	0.00	0.00		H
ATOM	17007	N	GLY	B	375	2.220	66.216	165.992	0.00	0.00		N
ATOM	17008	CA	GLY	B	375	2.002	65.159	165.046	0.00	0.00		C
ATOM	17009	C	GLY	B	375	3.070	64.152	164.863	0.00	0.00		C
ATOM	17010	O	GLY	B	375	4.275	64.372	165.144	0.00	0.00		O
ATOM	17011	HN	GLY	B	375	2.040	66.003	166.914	0.00	0.00		H
ATOM	17012	HCA	GLY	B	375	1.106	64.644	165.400	0.00	0.00		H
ATOM	17013	HCA	GLY	B	375	1.760	65.554	164.056	0.00	0.00		H
ATOM	17014	N	ARG	B	376	2.678	62.989	164.294	0.00	0.00		N
ATOM	17015	CA	ARG	B	376	3.496	61.865	163.943	0.00	0.00		C
ATOM	17016	C	ARG	B	376	4.541	62.240	162.955	0.00	0.00		C
ATOM	17017	O	ARG	B	376	5.733	61.938	163.186	0.00	0.00		O
ATOM	17018	CB	ARG	B	376	2.548	60.756	163.398	0.00	0.00		C
ATOM	17019	CG	ARG	B	376	3.229	59.374	163.186	0.00	0.00		C
ATOM	17020	CD	ARG	B	376	2.301	58.331	162.514	0.00	0.00		C
ATOM	17021	NE	ARG	B	376	1.145	58.083	163.320	0.00	0.00		N
ATOM	17022	CZ	ARG	B	376	-0.124	58.384	163.027	0.00	0.00		C
ATOM	17023	NH1	ARG	B	376	-0.528	58.981	161.916	0.00	0.00		N
ATOM	17024	NH2	ARG	B	376	-1.055	58.076	163.914	0.00	0.00		N
ATOM	17025	HN	ARG	B	376	1.732	62.912	164.098	0.00	0.00		H
ATOM	17026	HNE	ARG	B	376	1.293	57.660	164.175	0.00	0.00		H
ATOM	17027	HNH1	ARG	B	376	0.113	59.230	161.241	0.00	0.00		H
ATOM	17028	HNH1	ARG	B	376	-1.465	59.167	161.785	0.00	0.00		H
ATOM	17029	HNH2	ARG	B	376	-0.808	57.644	164.740	0.00	0.00		H
ATOM	17030	HNH2	ARG	B	376	-1.978	58.286	163.732	0.00	0.00		H
ATOM	17031	HCA	ARG	B	376	3.972	61.492	164.856	0.00	0.00		H
ATOM	17032	HC	ARG	B	376	1.730	60.620	164.112	0.00	0.00		H
ATOM	17033	HC	ARG	B	376	2.105	61.089	162.453	0.00	0.00		H
ATOM	17034	HCD	ARG	B	376	2.050	58.672	161.505	0.00	0.00		H
ATOM	17035	HCD	ARG	B	376	2.844	57.389	162.406	0.00	0.00		H
ATOM	17036	HCG	ARG	B	376	4.112	59.494	162.552	0.00	0.00		H
ATOM	17037	HCG	ARG	B	376	3.565	58.984	164.151	0.00	0.00		H
ATOM	17038	N	SER	B	377	4.207	62.937	161.841	0.00	0.00		N

ATOM	17039	CA	SER	B	377	5.127	63.440	160.856	0.00	0.00	C
ATOM	17040	C	SER	B	377	6.177	64.298	161.467	0.00	0.00	C
ATOM	17041	O	SER	B	377	7.380	64.013	161.280	0.00	0.00	O
ATOM	17042	CB	SER	B	377	4.350	64.206	159.756	0.00	0.00	C
ATOM	17043	OG	SER	B	377	5.225	64.653	158.719	0.00	0.00	O
ATOM	17044	HN	SER	B	377	3.264	63.118	161.712	0.00	0.00	H
ATOM	17045	HCA	SER	B	377	5.605	62.581	160.374	0.00	0.00	H
ATOM	17046	HCN	SER	B	377	3.602	63.544	159.311	0.00	0.00	H
ATOM	17047	HCN	SER	B	377	3.832	65.069	160.183	0.00	0.00	H
ATOM	17048	HOG	SER	B	377	4.644	65.112	158.071	0.00	0.00	H
ATOM	17049	N	PHE	B	378	5.849	65.332	162.277	0.00	0.00	N
ATOM	17050	CA	PHE	B	378	6.770	66.187	162.981	0.00	0.00	C
ATOM	17051	C	PHE	B	378	7.692	65.408	163.859	0.00	0.00	C
ATOM	17052	O	PHE	B	378	8.933	65.561	163.741	0.00	0.00	O
ATOM	17053	CB	PHE	B	378	5.938	67.249	163.760	0.00	0.00	C
ATOM	17054	CG	PHE	B	378	6.723	68.412	164.258	0.00	0.00	C
ATOM	17055	CD1	PHE	B	378	7.588	68.280	165.370	0.00	0.00	C
ATOM	17056	CD2	PHE	B	378	6.597	69.685	163.652	0.00	0.00	C
ATOM	17057	CE1	PHE	B	378	8.312	69.384	165.852	0.00	0.00	C
ATOM	17058	CE2	PHE	B	378	7.304	70.795	164.149	0.00	0.00	C
ATOM	17059	CZ	PHE	B	378	8.167	70.644	165.248	0.00	0.00	C
ATOM	17060	HN	PHE	B	378	4.902	65.495	162.406	0.00	0.00	H
ATOM	17061	HCA	PHE	B	378	7.362	66.719	162.228	0.00	0.00	H
ATOM	17062	HCN	PHE	B	378	5.149	67.614	163.095	0.00	0.00	H
ATOM	17063	HCN	PHE	B	378	5.429	66.781	164.607	0.00	0.00	H
ATOM	17064	HCD1	PHE	B	378	7.691	67.380	165.843	0.00	0.00	H
ATOM	17065	HCD2	PHE	B	378	5.976	69.817	162.851	0.00	0.00	H
ATOM	17066	HCE1	PHE	B	378	8.941	69.271	166.646	0.00	0.00	H
ATOM	17067	HCE2	PHE	B	378	7.184	71.711	163.718	0.00	0.00	H
ATOM	17068	HCZ	PHE	B	378	8.680	71.450	165.610	0.00	0.00	H
ATOM	17069	N	MET	B	379	7.203	64.514	164.754	0.00	0.00	N
ATOM	17070	CA	MET	B	379	8.013	63.659	165.587	0.00	0.00	C
ATOM	17071	C	MET	B	379	8.969	62.814	164.805	0.00	0.00	C
ATOM	17072	O	MET	B	379	10.191	62.815	165.099	0.00	0.00	O
ATOM	17073	CB	MET	B	379	7.065	62.826	166.495	0.00	0.00	C
ATOM	17074	CG	MET	B	379	7.795	62.074	167.638	0.00	0.00	C
ATOM	17075	SD	MET	B	379	6.654	61.169	168.716	0.00	0.00	S
ATOM	17076	CE	MET	B	379	6.016	62.539	169.709	0.00	0.00	C
ATOM	17077	HN	MET	B	379	6.246	64.455	164.846	0.00	0.00	H
ATOM	17078	HCA	MET	B	379	8.596	64.314	166.241	0.00	0.00	H
ATOM	17079	HCN	MET	B	379	6.336	63.507	166.940	0.00	0.00	H
ATOM	17080	HCN	MET	B	379	6.511	62.105	165.886	0.00	0.00	H
ATOM	17081	HCE	MET	B	379	5.437	63.225	169.092	0.00	0.00	H
ATOM	17082	HCE	MET	B	379	5.364	62.134	170.483	0.00	0.00	H
ATOM	17083	HCE	MET	B	379	6.836	63.076	170.186	0.00	0.00	H
ATOM	17084	HCG	MET	B	379	8.475	61.337	167.204	0.00	0.00	H
ATOM	17085	HCG	MET	B	379	8.393	62.765	168.237	0.00	0.00	H
ATOM	17086	N	ASN	B	380	8.535	62.094	163.741	0.00	0.00	N
ATOM	17087	CA	ASN	B	380	9.366	61.352	162.834	0.00	0.00	C
ATOM	17088	C	ASN	B	380	10.429	62.213	162.243	0.00	0.00	C
ATOM	17089	O	ASN	B	380	11.619	61.870	162.410	0.00	0.00	O
ATOM	17090	CB	ASN	B	380	8.477	60.681	161.747	0.00	0.00	C
ATOM	17091	CG	ASN	B	380	9.232	59.801	160.836	0.00	0.00	C
ATOM	17092	ND2	ASN	B	380	9.321	60.048	159.525	0.00	0.00	N
ATOM	17093	OD1	ASN	B	380	9.816	58.785	161.266	0.00	0.00	O
ATOM	17094	HN	ASN	B	380	7.595	62.083	163.571	0.00	0.00	H
ATOM	17095	HND2	ASN	B	380	8.890	60.825	159.142	0.00	0.00	H
ATOM	17096	HND2	ASN	B	380	9.825	59.440	158.965	0.00	0.00	H
ATOM	17097	HCA	ASN	B	380	9.838	60.551	163.415	0.00	0.00	H
ATOM	17098	HCN	ASN	B	380	7.712	60.070	162.232	0.00	0.00	H
ATOM	17099	HCN	ASN	B	380	7.961	61.449	161.168	0.00	0.00	H
ATOM	17100	N	ASN	B	381	10.143	63.371	161.600	0.00	0.00	N
ATOM	17101	CA	ASN	B	381	11.109	64.298	161.070	0.00	0.00	C
ATOM	17102	C	ASN	B	381	12.125	64.702	162.089	0.00	0.00	C
ATOM	17103	O	ASN	B	381	13.335	64.635	161.774	0.00	0.00	O
ATOM	17104	CB	ASN	B	381	10.404	65.543	160.454	0.00	0.00	C
ATOM	17105	CG	ASN	B	381	9.611	65.261	159.242	0.00	0.00	C
ATOM	17106	ND2	ASN	B	381	8.315	65.575	159.152	0.00	0.00	N
ATOM	17107	OD1	ASN	B	381	10.128	64.741	158.233	0.00	0.00	O
ATOM	17108	HN	ASN	B	381	9.220	63.589	161.496	0.00	0.00	H
ATOM	17109	HND2	ASN	B	381	7.856	65.965	159.908	0.00	0.00	H
ATOM	17110	HND2	ASN	B	381	7.827	65.377	158.342	0.00	0.00	H
ATOM	17111	HCA	ASN	B	381	11.637	63.783	160.259	0.00	0.00	H
ATOM	17112	HCN	ASN	B	381	9.762	66.004	161.205	0.00	0.00	H
ATOM	17113	HCN	ASN	B	381	11.157	66.281	160.167	0.00	0.00	H
ATOM	17114	N	TRP	B	382	11.777	65.096	163.339	0.00	0.00	N
ATOM	17115	CA	TRP	B	382	12.690	65.381	164.426	0.00	0.00	C
ATOM	17116	C	TRP	B	382	13.629	64.254	164.715	0.00	0.00	C
ATOM	17117	O	TRP	B	382	14.871	64.458	164.658	0.00	0.00	O
ATOM	17118	CB	TRP	B	382	11.848	65.819	165.660	0.00	0.00	C

ATOM	17119	CG	TRP	B	382	12.593	66.124	166.908	0.00	0.00	C
ATOM	17120	CD1	TRP	B	382	12.461	65.445	168.123	0.00	0.00	C
ATOM	17121	CD2	TRP	B	382	13.499	67.154	167.162	0.00	0.00	C
ATOM	17122	CE2	TRP	B	382	13.846	67.080	168.513	0.00	0.00	C
ATOM	17123	CE3	TRP	B	382	14.040	68.160	166.341	0.00	0.00	C
ATOM	17124	NE1	TRP	B	382	13.221	66.031	169.068	0.00	0.00	N
ATOM	17125	CZ2	TRP	B	382	14.733	68.004	169.091	0.00	0.00	C
ATOM	17126	CZ3	TRP	B	382	14.942	69.088	166.905	0.00	0.00	C
ATOM	17127	CH2	TRP	B	382	15.282	69.014	168.274	0.00	0.00	C
ATOM	17128	HN	TRP	B	382	10.837	65.202	163.502	0.00	0.00	H
ATOM	17129	HNE1	TRP	B	382	13.267	65.778	170.003	0.00	0.00	H
ATOM	17130	HCA	TRP	B	382	13.295	66.238	164.130	0.00	0.00	H
ATOM	17131	HCB	TRP	B	382	11.276	66.713	165.399	0.00	0.00	H
ATOM	17132	HCB	TRP	B	382	11.120	65.038	165.879	0.00	0.00	H
ATOM	17133	HCD1	TRP	B	382	11.855	64.639	168.278	0.00	0.00	H
ATOM	17134	HCE3	TRP	B	382	13.783	68.226	165.361	0.00	0.00	H
ATOM	17135	HCH2	TRP	B	382	15.932	69.695	168.674	0.00	0.00	H
ATOM	17136	HCZ2	TRP	B	382	14.981	67.939	170.079	0.00	0.00	H
ATOM	17137	HCZ3	TRP	B	382	15.346	69.821	166.319	0.00	0.00	H
ATOM	17138	N	GLU	B	383	13.156	63.015	165.000	0.00	0.00	N
ATOM	17139	CA	GLU	B	383	14.005	61.873	165.243	0.00	0.00	C
ATOM	17140	C	GLU	B	383	14.904	61.559	164.089	0.00	0.00	C
ATOM	17141	O	GLU	B	383	16.137	61.415	164.280	0.00	0.00	O
ATOM	17142	CB	GLU	B	383	13.178	60.618	165.655	0.00	0.00	C
ATOM	17143	CG	GLU	B	383	12.330	60.742	166.957	0.00	0.00	C
ATOM	17144	CD	GLU	B	383	13.010	61.322	168.128	0.00	0.00	C
ATOM	17145	OE1	GLU	B	383	14.143	60.966	168.509	0.00	0.00	O
ATOM	17146	OE2	GLU	B	383	12.494	62.228	168.809	0.00	0.00	O
ATOM	17147	HN	GLU	B	383	12.199	62.907	165.030	0.00	0.00	H
ATOM	17148	HCA	GLU	B	383	14.649	62.122	166.092	0.00	0.00	H
ATOM	17149	HCB	GLU	B	383	12.509	60.345	164.833	0.00	0.00	H
ATOM	17150	HCB	GLU	B	383	13.873	59.783	165.796	0.00	0.00	H
ATOM	17151	HCG	GLU	B	383	11.438	61.333	166.751	0.00	0.00	H
ATOM	17152	HCG	GLU	B	383	11.991	59.744	167.244	0.00	0.00	H
ATOM	17153	N	VAL	B	384	14.410	61.473	162.832	0.00	0.00	N
ATOM	17154	CA	VAL	B	384	15.167	61.236	161.631	0.00	0.00	C
ATOM	17155	C	VAL	B	384	16.226	62.276	161.473	0.00	0.00	C
ATOM	17156	O	VAL	B	384	17.405	61.883	161.315	0.00	0.00	O
ATOM	17157	CB	VAL	B	384	14.204	61.083	160.403	0.00	0.00	C
ATOM	17158	CG1	VAL	B	384	14.956	60.987	159.048	0.00	0.00	C
ATOM	17159	CG2	VAL	B	384	13.295	59.823	160.530	0.00	0.00	C
ATOM	17160	HN	VAL	B	384	13.471	61.605	162.724	0.00	0.00	H
ATOM	17161	HCA	VAL	B	384	15.668	60.271	161.746	0.00	0.00	H
ATOM	17162	HCB	VAL	B	384	13.560	61.967	160.360	0.00	0.00	H
ATOM	17163	HCG1	VAL	B	384	15.631	60.128	159.039	0.00	0.00	H
ATOM	17164	HCG1	VAL	B	384	14.252	60.890	158.218	0.00	0.00	H
ATOM	17165	HCG1	VAL	B	384	15.542	61.887	158.883	0.00	0.00	H
ATOM	17166	HCG2	VAL	B	384	13.888	58.908	160.465	0.00	0.00	H
ATOM	17167	HCG2	VAL	B	384	12.765	59.806	161.481	0.00	0.00	H
ATOM	17168	HCG2	VAL	B	384	12.549	59.809	159.732	0.00	0.00	H
ATOM	17169	N	TYR	B	385	15.988	63.609	161.586	0.00	0.00	N
ATOM	17170	CA	TYR	B	385	17.004	64.628	161.614	0.00	0.00	C
ATOM	17171	C	TYR	B	385	18.059	64.319	162.625	0.00	0.00	C
ATOM	17172	O	TYR	B	385	19.246	64.213	162.231	0.00	0.00	O
ATOM	17173	CB	TYR	B	385	16.388	66.046	161.855	0.00	0.00	C
ATOM	17174	CG	TYR	B	385	17.463	67.058	162.061	0.00	0.00	C
ATOM	17175	CD1	TYR	B	385	18.247	67.496	160.971	0.00	0.00	C
ATOM	17176	CD2	TYR	B	385	17.823	67.463	163.368	0.00	0.00	C
ATOM	17177	CE1	TYR	B	385	19.405	68.263	161.184	0.00	0.00	C
ATOM	17178	CE2	TYR	B	385	19.005	68.192	163.585	0.00	0.00	C
ATOM	17179	CZ	TYR	B	385	19.803	68.579	162.494	0.00	0.00	C
ATOM	17180	OH	TYR	B	385	20.966	69.230	162.701	0.00	0.00	O
ATOM	17181	HN	TYR	B	385	15.083	63.900	161.668	0.00	0.00	H
ATOM	17182	HCA	TYR	B	385	17.470	64.639	160.623	0.00	0.00	H
ATOM	17183	HCB	TYR	B	385	15.767	66.339	161.006	0.00	0.00	H
ATOM	17184	HCB	TYR	B	385	15.730	66.012	162.725	0.00	0.00	H
ATOM	17185	HCD1	TYR	B	385	18.002	67.225	160.021	0.00	0.00	H
ATOM	17186	HCD2	TYR	B	385	17.257	67.185	164.173	0.00	0.00	H
ATOM	17187	HCE1	TYR	B	385	19.970	68.564	160.387	0.00	0.00	H
ATOM	17188	HCE2	TYR	B	385	19.291	68.432	164.536	0.00	0.00	H
ATOM	17189	HOH	TYR	B	385	21.569	69.336	161.955	0.00	0.00	H
ATOM	17190	N	LYS	B	386	17.747	64.157	163.936	0.00	0.00	N
ATOM	17191	CA	LYS	B	386	18.710	63.868	164.974	0.00	0.00	C
ATOM	17192	C	LYS	B	386	19.601	62.730	164.623	0.00	0.00	C
ATOM	17193	O	LYS	B	386	20.847	62.875	164.691	0.00	0.00	O
ATOM	17194	CB	LYS	B	386	17.969	63.596	166.314	0.00	0.00	C
ATOM	17195	CG	LYS	B	386	17.516	64.896	167.031	0.00	0.00	C
ATOM	17196	CD	LYS	B	386	16.242	64.736	167.892	0.00	0.00	C
ATOM	17197	CE	LYS	B	386	16.284	63.676	169.013	0.00	0.00	C
ATOM	17198	NZ	LYS	B	386	14.952	63.564	169.621	0.00	0.00	N



ATOM	17199	HN	LYS	B	386	16.818	64.249	164.180	0.00	0.00	H
ATOM	17200	HNZ	LYS	B	386	14.478	62.763	169.237	0.00	0.00	H
ATOM	17201	HNZ	LYS	B	386	15.038	63.431	170.628	0.00	0.00	H
ATOM	17202	HNZ	LYS	B	386	14.399	64.387	169.429	0.00	0.00	H
ATOM	17203	HCA	LYS	B	386	19.341	64.755	165.101	0.00	0.00	H
ATOM	17204	HCB	LYS	B	386	17.108	62.954	166.116	0.00	0.00	H
ATOM	17205	HCB	LYS	B	386	18.623	63.050	167.002	0.00	0.00	H
ATOM	17206	HCD	LYS	B	386	16.073	65.700	168.364	0.00	0.00	H
ATOM	17207	HCD	LYS	B	386	15.397	64.525	167.233	0.00	0.00	H
ATOM	17208	HCE	LYS	B	386	16.571	62.699	168.621	0.00	0.00	H
ATOM	17209	HCE	LYS	B	386	17.008	63.975	169.775	0.00	0.00	H
ATOM	17210	HCG	LYS	B	386	18.335	65.269	167.653	0.00	0.00	H
ATOM	17211	HCG	LYS	B	386	17.298	65.670	166.288	0.00	0.00	H
ATOM	17212	N	LEU	B	387	19.062	61.574	164.177	0.00	0.00	N
ATOM	17213	CA	LEU	B	387	19.811	60.452	163.685	0.00	0.00	C
ATOM	17214	C	LEU	B	387	20.721	60.848	162.561	0.00	0.00	C
ATOM	17215	O	LEU	B	387	21.965	60.814	162.727	0.00	0.00	O
ATOM	17216	CB	LEU	B	387	18.811	59.316	163.298	0.00	0.00	C
ATOM	17217	CG	LEU	B	387	17.992	58.706	164.488	0.00	0.00	C
ATOM	17218	CD1	LEU	B	387	16.718	57.973	163.984	0.00	0.00	C
ATOM	17219	CD2	LEU	B	387	18.826	57.728	165.355	0.00	0.00	C
ATOM	17220	HN	LEU	B	387	18.102	61.517	164.178	0.00	0.00	H
ATOM	17221	HCA	LEU	B	387	20.438	60.086	164.503	0.00	0.00	H
ATOM	17222	HCB	LEU	B	387	18.113	59.724	162.564	0.00	0.00	H
ATOM	17223	HCB	LEU	B	387	19.348	58.512	162.793	0.00	0.00	H
ATOM	17224	HCD1	LEU	B	387	16.058	58.667	163.465	0.00	0.00	H
ATOM	17225	HCD1	LEU	B	387	16.981	57.166	163.298	0.00	0.00	H
ATOM	17226	HCD1	LEU	B	387	16.158	57.552	164.822	0.00	0.00	H
ATOM	17227	HCD2	LEU	B	387	19.080	56.844	164.772	0.00	0.00	H
ATOM	17228	HCD2	LEU	B	387	19.744	58.195	165.711	0.00	0.00	H
ATOM	17229	HCD2	LEU	B	387	18.252	57.410	166.228	0.00	0.00	H
ATOM	17230	HCG	LEU	B	387	17.660	59.514	165.145	0.00	0.00	H
ATOM	17231	N	LEU	B	388	20.239	61.322	161.390	0.00	0.00	N
ATOM	17232	CA	LEU	B	388	21.026	61.619	160.217	0.00	0.00	C
ATOM	17233	C	LEU	B	388	22.115	62.609	160.427	0.00	0.00	C
ATOM	17234	O	LEU	B	388	23.192	62.488	159.786	0.00	0.00	O
ATOM	17235	CB	LEU	B	388	20.100	62.135	159.081	0.00	0.00	C
ATOM	17236	CG	LEU	B	388	19.024	61.128	158.579	0.00	0.00	C
ATOM	17237	CD1	LEU	B	388	18.147	61.804	157.504	0.00	0.00	C
ATOM	17238	CD2	LEU	B	388	19.627	59.829	158.015	0.00	0.00	C
ATOM	17239	HN	LEU	B	388	19.293	61.476	161.347	0.00	0.00	H
ATOM	17240	HCA	LEU	B	388	21.504	60.691	159.896	0.00	0.00	H
ATOM	17241	HCB	LEU	B	388	19.594	63.038	159.438	0.00	0.00	H
ATOM	17242	HCB	LEU	B	388	20.715	62.423	158.222	0.00	0.00	H
ATOM	17243	HCD1	LEU	B	388	17.695	62.715	157.896	0.00	0.00	H
ATOM	17244	HCD1	LEU	B	388	18.740	62.059	156.622	0.00	0.00	H
ATOM	17245	HCD1	LEU	B	388	17.349	61.122	157.212	0.00	0.00	H
ATOM	17246	HCD2	LEU	B	388	20.074	59.231	158.810	0.00	0.00	H
ATOM	17247	HCD2	LEU	B	388	18.850	59.223	157.551	0.00	0.00	H
ATOM	17248	HCD2	LEU	B	388	20.384	60.081	157.274	0.00	0.00	H
ATOM	17249	HCG	LEU	B	388	18.373	60.835	159.401	0.00	0.00	H
ATOM	17250	N	ALA	B	389	21.902	63.657	161.250	0.00	0.00	N
ATOM	17251	CA	ALA	B	389	22.854	64.661	161.601	0.00	0.00	C
ATOM	17252	C	ALA	B	389	23.847	64.254	162.635	0.00	0.00	C
ATOM	17253	O	ALA	B	389	24.642	65.150	163.004	0.00	0.00	O
ATOM	17254	CB	ALA	B	389	22.036	65.907	162.028	0.00	0.00	C
ATOM	17255	HN	ALA	B	389	21.024	63.755	161.625	0.00	0.00	H
ATOM	17256	HCA	ALA	B	389	23.421	64.942	160.707	0.00	0.00	H
ATOM	17257	HCB	ALA	B	389	21.488	65.714	162.953	0.00	0.00	H
ATOM	17258	HCB	ALA	B	389	22.692	66.766	162.182	0.00	0.00	H
ATOM	17259	HCB	ALA	B	389	21.323	66.169	161.245	0.00	0.00	H
ATOM	17260	N	HIS	B	390	23.966	63.004	163.164	0.00	0.00	N
ATOM	17261	CA	HIS	B	390	25.028	62.584	164.062	0.00	0.00	C
ATOM	17262	C	HIS	B	390	26.426	62.856	163.578	0.00	0.00	C
ATOM	17263	O	HIS	B	390	26.654	63.241	162.407	0.00	0.00	O
ATOM	17264	CB	HIS	B	390	24.841	61.071	164.429	0.00	0.00	C
ATOM	17265	CG	HIS	B	390	24.073	60.828	165.671	0.00	0.00	C
ATOM	17266	CD2	HIS	B	390	24.502	60.100	166.779	0.00	0.00	C
ATOM	17267	ND1	HIS	B	390	22.828	61.234	165.966	0.00	0.00	N
ATOM	17268	CE1	HIS	B	390	22.504	60.783	167.184	0.00	0.00	C
ATOM	17269	NE2	HIS	B	390	23.527	60.083	167.700	0.00	0.00	N
ATOM	17270	HN	HIS	B	390	23.298	62.344	162.941	0.00	0.00	H
ATOM	17271	HND1	HIS	B	390	22.237	61.762	165.430	0.00	0.00	H
ATOM	17272	HCA	HIS	B	390	24.912	63.172	164.976	0.00	0.00	H
ATOM	17273	HCB	HIS	B	390	24.334	60.548	163.623	0.00	0.00	H
ATOM	17274	HCB	HIS	B	390	25.811	60.576	164.535	0.00	0.00	H
ATOM	17275	HCD2	HIS	B	390	25.413	59.646	166.880	0.00	0.00	H
ATOM	17276	HCE1	HIS	B	390	21.610	60.948	167.652	0.00	0.00	H
ATOM	17277	N	ILE	B	391	27.472	62.701	164.427	0.00	0.00	N
ATOM	17278	CA	ILE	B	391	28.865	62.924	164.116	0.00	0.00	C

ATOM	17279	C	ILE	B	391	29.426	61.705	163.470	0.00	0.00		C
ATOM	17280	O	ILE	B	391	29.869	61.766	162.299	0.00	0.00		O
ATOM	17281	CB	ILE	B	391	29.636	63.346	165.418	0.00	0.00		C
ATOM	17282	CG1	ILE	B	391	29.076	64.644	166.089	0.00	0.00		C
ATOM	17283	CG2	ILE	B	391	31.176	63.446	165.214	0.00	0.00		C
ATOM	17284	CD1	ILE	B	391	29.109	65.935	165.231	0.00	0.00		C
ATOM	17285	HN	ILE	B	391	27.264	62.387	165.318	0.00	0.00		H
ATOM	17286	HCA	ILE	B	391	28.956	63.745	163.398	0.00	0.00		H
ATOM	17287	HCB	ILE	B	391	29.488	62.546	166.153	0.00	0.00		H
ATOM	17288	HCD1	ILE	B	391	30.127	66.166	164.919	0.00	0.00		H
ATOM	17289	HCD1	ILE	B	391	28.477	65.837	164.347	0.00	0.00		H
ATOM	17290	HCD1	ILE	B	391	28.738	66.777	165.814	0.00	0.00		H
ATOM	17291	HCG1	ILE	B	391	28.044	64.462	166.394	0.00	0.00		H
ATOM	17292	HCG1	ILE	B	391	29.637	64.837	167.007	0.00	0.00		H
ATOM	17293	HCG2	ILE	B	391	31.591	62.489	164.898	0.00	0.00		H
ATOM	17294	HCG2	ILE	B	391	31.427	64.194	164.461	0.00	0.00		H
ATOM	17295	HCG2	ILE	B	391	31.660	63.705	166.156	0.00	0.00		H
ATOM	17296	N	ARG	B	392	29.479	60.545	164.163	0.00	0.00		N
ATOM	17297	CA	ARG	B	392	29.879	59.256	163.667	0.00	0.00		C
ATOM	17298	C	ARG	B	392	28.959	58.191	164.193	0.00	0.00		C
ATOM	17299	O	ARG	B	392	28.394	58.400	165.298	0.00	0.00		O
ATOM	17300	CB	ARG	B	392	31.367	58.966	164.047	0.00	0.00		C
ATOM	17301	CG	ARG	B	392	32.456	59.675	163.184	0.00	0.00		C
ATOM	17302	CD	ARG	B	392	32.448	59.304	161.676	0.00	0.00		C
ATOM	17303	NE	ARG	B	392	33.699	59.620	161.054	0.00	0.00		N
ATOM	17304	CZ	ARG	B	392	33.919	59.711	159.737	0.00	0.00		C
ATOM	17305	NH1	ARG	B	392	32.962	59.621	158.828	0.00	0.00		N
ATOM	17306	NH2	ARG	B	392	35.145	59.919	159.290	0.00	0.00		N
ATOM	17307	HN	ARG	B	392	29.200	60.585	165.089	0.00	0.00		H
ATOM	17308	HNE	ARG	B	392	34.469	59.734	161.626	0.00	0.00		H
ATOM	17309	HNH1	ARG	B	392	32.062	59.487	159.128	0.00	0.00		H
ATOM	17310	HNH1	ARG	B	392	33.145	59.720	157.895	0.00	0.00		H
ATOM	17311	HNH2	ARG	B	392	35.881	60.000	159.908	0.00	0.00		H
ATOM	17312	HNH2	ARG	B	392	35.292	59.983	158.338	0.00	0.00		H
ATOM	17313	HCA	ARG	B	392	29.775	59.262	162.582	0.00	0.00		H
ATOM	17314	HCB	ARG	B	392	31.519	59.251	165.093	0.00	0.00		H
ATOM	17315	HCB	ARG	B	392	31.562	57.891	163.994	0.00	0.00		H
ATOM	17316	HCD	ARG	B	392	32.275	58.231	161.561	0.00	0.00		H
ATOM	17317	HCD	ARG	B	392	31.630	59.843	161.188	0.00	0.00		H
ATOM	17318	HCG	ARG	B	392	32.352	60.758	163.278	0.00	0.00		H
ATOM	17319	HCG	ARG	B	392	33.429	59.405	163.605	0.00	0.00		H
ATOM	17320	N	PRO	B	393	28.710	57.005	163.553	0.00	0.00		N
ATOM	17321	CA	PRO	B	393	27.814	55.988	164.065	0.00	0.00		C
ATOM	17322	C	PRO	B	393	28.412	55.118	165.096	0.00	0.00		C
ATOM	17323	O	PRO	B	393	29.610	55.258	165.326	0.00	0.00		O
ATOM	17324	CB	PRO	B	393	27.449	55.202	162.780	0.00	0.00		C
ATOM	17325	CG	PRO	B	393	28.744	55.250	161.959	0.00	0.00		C
ATOM	17326	CD	PRO	B	393	29.320	56.625	162.314	0.00	0.00		C
ATOM	17327	HCA	PRO	B	393	26.914	56.463	164.464	0.00	0.00		H
ATOM	17328	HCB	PRO	B	393	27.139	54.170	162.964	0.00	0.00		H
ATOM	17329	HCB	PRO	B	393	26.645	55.714	162.242	0.00	0.00		H
ATOM	17330	HCD	PRO	B	393	30.408	56.564	162.391	0.00	0.00		H
ATOM	17331	HCD	PRO	B	393	29.051	57.341	161.539	0.00	0.00		H
ATOM	17332	HCG	PRO	B	393	29.423	54.454	162.281	0.00	0.00		H
ATOM	17333	HCG	PRO	B	393	28.570	55.160	160.887	0.00	0.00		H
ATOM	17334	N	PRO	B	394	27.755	54.161	165.761	0.00	0.00		N
ATOM	17335	CA	PRO	B	394	28.424	53.121	166.519	0.00	0.00		C
ATOM	17336	C	PRO	B	394	29.234	52.209	165.708	0.00	0.00		C
ATOM	17337	O	PRO	B	394	29.153	52.216	164.485	0.00	0.00		O
ATOM	17338	CB	PRO	B	394	27.289	52.371	167.270	0.00	0.00		C
ATOM	17339	CG	PRO	B	394	26.075	53.298	167.133	0.00	0.00		C
ATOM	17340	CD	PRO	B	394	26.332	53.994	165.791	0.00	0.00		C
ATOM	17341	HCA	PRO	B	394	29.073	53.601	167.259	0.00	0.00		H
ATOM	17342	HCB	PRO	B	394	27.056	51.407	166.802	0.00	0.00		H
ATOM	17343	HCB	PRO	B	394	27.540	52.197	168.320	0.00	0.00		H
ATOM	17344	HCD	PRO	B	394	26.023	53.339	164.973	0.00	0.00		H
ATOM	17345	HCD	PRO	B	394	25.770	54.930	165.750	0.00	0.00		H
ATOM	17346	HCG	PRO	B	394	25.131	52.745	167.131	0.00	0.00		H
ATOM	17347	HCG	PRO	B	394	26.063	54.033	167.945	0.00	0.00		H
ATOM	17348	N	ALA	B	395	30.042	51.352	166.305	0.00	0.00		N
ATOM	17349	CA	ALA	B	395	30.844	50.357	165.649	0.00	0.00		C
ATOM	17350	C	ALA	B	395	30.010	49.238	165.101	0.00	0.00		C
ATOM	17351	O	ALA	B	395	29.175	48.733	165.894	0.00	0.00		O
ATOM	17352	CB	ALA	B	395	31.888	49.831	166.666	0.00	0.00		C
ATOM	17353	HN	ALA	B	395	30.065	51.377	167.273	0.00	0.00		H
ATOM	17354	HCA	ALA	B	395	31.404	50.850	164.851	0.00	0.00		H
ATOM	17355	HCB	ALA	B	395	31.396	49.361	167.521	0.00	0.00		H
ATOM	17356	HCB	ALA	B	395	32.541	49.095	166.191	0.00	0.00		H
ATOM	17357	HCB	ALA	B	395	32.508	50.654	167.029	0.00	0.00		H
ATOM	17358	N	PRO	B	396	30.102	48.723	163.832	0.00	0.00		N

ATOM	17359	CA	PRO	B	396	29.273	47.637	163.362	0.00	0.00	C
ATOM	17360	C	PRO	B	396	29.547	46.388	164.074	0.00	0.00	C
ATOM	17361	O	PRO	B	396	30.698	45.978	164.166	0.00	0.00	O
ATOM	17362	CB	PRO	B	396	29.540	47.557	161.839	0.00	0.00	C
ATOM	17363	CG	PRO	B	396	30.937	48.168	161.682	0.00	0.00	C
ATOM	17364	CD	PRO	B	396	31.016	49.189	162.830	0.00	0.00	C
ATOM	17365	HCA	PRO	B	396	28.223	47.915	163.501	0.00	0.00	H
ATOM	17366	HCB	PRO	B	396	29.496	46.537	161.448	0.00	0.00	H
ATOM	17367	HCB	PRO	B	396	28.811	48.169	161.297	0.00	0.00	H
ATOM	17368	HCD	PRO	B	396	32.043	49.239	163.204	0.00	0.00	H
ATOM	17369	HCD	PRO	B	396	30.706	50.178	162.479	0.00	0.00	H
ATOM	17370	HCG	PRO	B	396	31.700	47.394	161.811	0.00	0.00	H
ATOM	17371	HCG	PRO	B	396	31.068	48.641	160.704	0.00	0.00	H
ATOM	17372	N	LYS	B	397	28.554	45.731	164.645	0.00	0.00	N
ATOM	17373	CA	LYS	B	397	28.675	44.585	165.510	0.00	0.00	C
ATOM	17374	C	LYS	B	397	28.990	43.319	164.785	0.00	0.00	C
ATOM	17375	O	LYS	B	397	29.091	43.298	163.536	0.00	0.00	O
ATOM	17376	CB	LYS	B	397	27.368	44.472	166.356	0.00	0.00	C
ATOM	17377	CG	LYS	B	397	27.104	45.707	167.267	0.00	0.00	C
ATOM	17378	CD	LYS	B	397	25.825	45.596	168.146	0.00	0.00	C
ATOM	17379	CE	LYS	B	397	25.873	44.552	169.290	0.00	0.00	C
ATOM	17380	NZ	LYS	B	397	26.941	44.841	170.251	0.00	0.00	N
ATOM	17381	HN	LYS	B	397	27.662	46.057	164.456	0.00	0.00	H
ATOM	17382	HNZ	LYS	B	397	27.847	44.779	169.790	0.00	0.00	H
ATOM	17383	HNZ	LYS	B	397	26.819	45.780	170.628	0.00	0.00	H
ATOM	17384	HNZ	LYS	B	397	26.908	44.167	171.015	0.00	0.00	H
ATOM	17385	HCA	LYS	B	397	29.503	44.759	166.206	0.00	0.00	H
ATOM	17386	HCB	LYS	B	397	26.515	44.329	165.685	0.00	0.00	H
ATOM	17387	HCB	LYS	B	397	27.438	43.588	166.993	0.00	0.00	H
ATOM	17388	HCD	LYS	B	397	25.631	46.575	168.593	0.00	0.00	H
ATOM	17389	HCD	LYS	B	397	24.972	45.365	167.502	0.00	0.00	H
ATOM	17390	HCE	LYS	B	397	24.921	44.568	169.826	0.00	0.00	H
ATOM	17391	HCE	LYS	B	397	26.012	43.547	168.890	0.00	0.00	H
ATOM	17392	HCG	LYS	B	397	27.972	45.885	167.906	0.00	0.00	H
ATOM	17393	HCG	LYS	B	397	26.988	46.591	166.632	0.00	0.00	H
ATOM	17394	N	SER	B	398	29.184	42.178	165.489	0.00	0.00	N
ATOM	17395	CA	SER	B	398	29.480	40.879	164.947	0.00	0.00	C
ATOM	17396	C	SER	B	398	28.353	40.348	164.128	0.00	0.00	C
ATOM	17397	O	SER	B	398	28.454	40.279	162.877	0.00	0.00	O
ATOM	17398	CB	SER	B	398	29.848	39.937	166.130	0.00	0.00	C
ATOM	17399	OG	SER	B	398	28.816	39.892	167.128	0.00	0.00	O
ATOM	17400	HN	SER	B	398	29.101	42.243	166.453	0.00	0.00	H
ATOM	17401	HCA	SER	B	398	30.366	40.967	164.309	0.00	0.00	H
ATOM	17402	HCB	SER	B	398	30.033	38.925	165.758	0.00	0.00	H
ATOM	17403	HCB	SER	B	398	30.767	40.293	166.602	0.00	0.00	H
ATOM	17404	HOG	SER	B	398	29.162	39.298	167.835	0.00	0.00	H
ATOM	17405	N	GLY	B	399	27.222	39.962	164.761	0.00	0.00	N
ATOM	17406	CA	GLY	B	399	25.986	39.522	164.176	0.00	0.00	C
ATOM	17407	C	GLY	B	399	25.196	40.603	163.543	0.00	0.00	C
ATOM	17408	O	GLY	B	399	24.005	40.808	163.872	0.00	0.00	O
ATOM	17409	HN	GLY	B	399	27.324	39.975	165.719	0.00	0.00	H
ATOM	17410	HCA	GLY	B	399	26.191	38.756	163.424	0.00	0.00	H
ATOM	17411	HCA	GLY	B	399	25.390	39.054	164.963	0.00	0.00	H
ATOM	17412	N	SER	B	400	25.799	41.335	162.588	0.00	0.00	N
ATOM	17413	CA	SER	B	400	25.235	42.395	161.795	0.00	0.00	C
ATOM	17414	C	SER	B	400	24.812	41.950	160.442	0.00	0.00	C
ATOM	17415	O	SER	B	400	25.157	40.824	160.008	0.00	0.00	O
ATOM	17416	CB	SER	B	400	26.291	43.522	161.689	0.00	0.00	C
ATOM	17417	OG	SER	B	400	27.479	43.063	161.042	0.00	0.00	O
ATOM	17418	HN	SER	B	400	26.718	41.092	162.467	0.00	0.00	H
ATOM	17419	HCA	SER	B	400	24.353	42.804	162.298	0.00	0.00	H
ATOM	17420	HCB	SER	B	400	25.888	44.358	161.120	0.00	0.00	H
ATOM	17421	HCB	SER	B	400	26.542	43.883	162.690	0.00	0.00	H
ATOM	17422	HOG	SER	B	400	28.149	43.768	161.192	0.00	0.00	H
ATOM	17423	N	TYR	B	401	24.050	42.768	159.676	0.00	0.00	N
ATOM	17424	CA	TYR	B	401	23.602	42.514	158.335	0.00	0.00	C
ATOM	17425	C	TYR	B	401	24.295	43.397	157.355	0.00	0.00	C
ATOM	17426	O	TYR	B	401	25.209	44.181	157.717	0.00	0.00	O
ATOM	17427	CB	TYR	B	401	22.050	42.660	158.294	0.00	0.00	C
ATOM	17428	CG	TYR	B	401	21.330	41.900	159.360	0.00	0.00	C
ATOM	17429	CD1	TYR	B	401	21.498	40.500	159.494	0.00	0.00	C
ATOM	17430	CD2	TYR	B	401	20.455	42.561	160.256	0.00	0.00	C
ATOM	17431	CE1	TYR	B	401	20.822	39.784	160.501	0.00	0.00	C
ATOM	17432	CE2	TYR	B	401	19.772	41.845	161.257	0.00	0.00	C
ATOM	17433	CZ	TYR	B	401	19.957	40.456	161.382	0.00	0.00	C
ATOM	17434	OH	TYR	B	401	19.308	39.766	162.346	0.00	0.00	O
ATOM	17435	HN	TYR	B	401	23.752	43.598	160.046	0.00	0.00	H
ATOM	17436	HCA	TYR	B	401	23.850	41.493	158.030	0.00	0.00	H
ATOM	17437	HCB	TYR	B	401	21.798	43.722	158.350	0.00	0.00	H
ATOM	17438	HCB	TYR	B	401	21.687	42.302	157.328	0.00	0.00	H

ATOM	17439	HCD1	TYR	B	401	22.113	39.989	158.857	0.00	0.00	H
ATOM	17440	HCD2	TYR	B	401	20.306	43.570	160.186	0.00	0.00	H
ATOM	17441	HCE1	TYR	B	401	20.956	38.775	160.590	0.00	0.00	H
ATOM	17442	HCE2	TYR	B	401	19.141	42.336	161.894	0.00	0.00	H
ATOM	17443	HOH	TYR	B	401	18.718	40.235	162.973	0.00	0.00	H
ATOM	17444	N	THR	B	402	23.990	43.297	156.038	0.00	0.00	N
ATOM	17445	CA	THR	B	402	24.778	43.851	154.969	0.00	0.00	C
ATOM	17446	C	THR	B	402	23.960	44.131	153.758	0.00	0.00	C
ATOM	17447	O	THR	B	402	23.409	43.198	153.125	0.00	0.00	O
ATOM	17448	CB	THR	B	402	26.016	42.939	154.719	0.00	0.00	C
ATOM	17449	CG2	THR	B	402	25.726	41.426	154.616	0.00	0.00	C
ATOM	17450	OG1	THR	B	402	26.728	43.370	153.564	0.00	0.00	O
ATOM	17451	HN	THR	B	402	23.245	42.727	155.797	0.00	0.00	H
ATOM	17452	HCA	THR	B	402	25.164	44.814	155.304	0.00	0.00	H
ATOM	17453	HCB	THR	B	402	26.689	43.062	155.573	0.00	0.00	H
ATOM	17454	HCG2	THR	B	402	25.092	41.209	153.757	0.00	0.00	H
ATOM	17455	HCG2	THR	B	402	26.664	40.882	154.510	0.00	0.00	H
ATOM	17456	HCG2	THR	B	402	25.236	41.066	155.520	0.00	0.00	H
ATOM	17457	HOG1	THR	B	402	26.739	42.600	152.970	0.00	0.00	H
ATOM	17458	N	VAL	B	403	23.754	45.416	153.386	0.00	0.00	N
ATOM	17459	CA	VAL	B	403	22.761	45.880	152.450	0.00	0.00	C
ATOM	17460	C	VAL	B	403	23.353	46.453	151.215	0.00	0.00	C
ATOM	17461	O	VAL	B	403	24.279	47.279	151.336	0.00	0.00	O
ATOM	17462	CB	VAL	B	403	21.871	46.944	153.179	0.00	0.00	C
ATOM	17463	CG1	VAL	B	403	20.651	47.376	152.311	0.00	0.00	C
ATOM	17464	CG2	VAL	B	403	21.413	46.467	154.591	0.00	0.00	C
ATOM	17465	HN	VAL	B	403	24.235	46.088	153.880	0.00	0.00	H
ATOM	17466	HCA	VAL	B	403	22.111	45.057	152.152	0.00	0.00	H
ATOM	17467	HCB	VAL	B	403	22.485	47.837	153.340	0.00	0.00	H
ATOM	17468	HCG1	VAL	B	403	20.983	47.885	151.406	0.00	0.00	H
ATOM	17469	HCG1	VAL	B	403	20.049	46.517	152.023	0.00	0.00	H
ATOM	17470	HCG1	VAL	B	403	20.010	48.071	152.851	0.00	0.00	H
ATOM	17471	HCG2	VAL	B	403	21.068	45.435	154.549	0.00	0.00	H
ATOM	17472	HCG2	VAL	B	403	22.246	46.515	155.295	0.00	0.00	H
ATOM	17473	HCG2	VAL	B	403	20.616	47.093	154.991	0.00	0.00	H
ATOM	17474	N	ALA	B	404	22.838	46.194	149.990	0.00	0.00	N
ATOM	17475	CA	ALA	B	404	23.145	46.931	148.792	0.00	0.00	C
ATOM	17476	C	ALA	B	404	22.170	48.034	148.582	0.00	0.00	C
ATOM	17477	O	ALA	B	404	20.949	47.757	148.512	0.00	0.00	O
ATOM	17478	CB	ALA	B	404	23.143	46.010	147.554	0.00	0.00	C
ATOM	17479	HN	ALA	B	404	22.165	45.517	149.943	0.00	0.00	H
ATOM	17480	HCA	ALA	B	404	24.154	47.341	148.855	0.00	0.00	H
ATOM	17481	HCB	ALA	B	404	23.948	45.287	147.618	0.00	0.00	H
ATOM	17482	HCB	ALA	B	404	22.195	45.487	147.480	0.00	0.00	H
ATOM	17483	HCB	ALA	B	404	23.290	46.591	146.643	0.00	0.00	H
ATOM	17484	N	VAL	B	405	22.609	49.300	148.392	0.00	0.00	N
ATOM	17485	CA	VAL	B	405	21.810	50.414	147.954	0.00	0.00	C
ATOM	17486	C	VAL	B	405	22.152	50.715	146.536	0.00	0.00	C
ATOM	17487	O	VAL	B	405	23.326	51.038	146.215	0.00	0.00	O
ATOM	17488	CB	VAL	B	405	21.879	51.638	148.927	0.00	0.00	C
ATOM	17489	CG1	VAL	B	405	23.270	52.314	149.028	0.00	0.00	C
ATOM	17490	CG2	VAL	B	405	20.808	52.709	148.572	0.00	0.00	C
ATOM	17491	HN	VAL	B	405	23.550	49.428	148.507	0.00	0.00	H
ATOM	17492	HCA	VAL	B	405	20.762	50.112	147.973	0.00	0.00	H
ATOM	17493	HCB	VAL	B	405	21.637	51.260	149.927	0.00	0.00	H
ATOM	17494	HCG1	VAL	B	405	24.043	51.577	149.234	0.00	0.00	H
ATOM	17495	HCG1	VAL	B	405	23.512	52.829	148.098	0.00	0.00	H
ATOM	17496	HCG1	VAL	B	405	23.276	53.045	149.836	0.00	0.00	H
ATOM	17497	HCG2	VAL	B	405	19.808	52.272	148.568	0.00	0.00	H
ATOM	17498	HCG2	VAL	B	405	20.818	53.515	149.305	0.00	0.00	H
ATOM	17499	HCG2	VAL	B	405	21.000	53.135	147.586	0.00	0.00	H
ATOM	17500	N	MET	B	406	21.187	50.590	145.593	0.00	0.00	N
ATOM	17501	CA	MET	B	406	21.337	50.869	144.193	0.00	0.00	C
ATOM	17502	C	MET	B	406	20.348	51.864	143.707	0.00	0.00	C
ATOM	17503	O	MET	B	406	19.185	51.917	144.171	0.00	0.00	O
ATOM	17504	CB	MET	B	406	21.321	49.551	143.361	0.00	0.00	C
ATOM	17505	CG	MET	B	406	19.966	48.804	143.287	0.00	0.00	C
ATOM	17506	SD	MET	B	406	20.002	47.401	142.140	0.00	0.00	S
ATOM	17507	CE	MET	B	406	20.871	46.201	143.169	0.00	0.00	C
ATOM	17508	HN	MET	B	406	20.328	50.290	145.901	0.00	0.00	H
ATOM	17509	HCA	MET	B	406	22.322	51.319	144.023	0.00	0.00	H
ATOM	17510	HCB	MET	B	406	21.644	49.782	142.341	0.00	0.00	H
ATOM	17511	HCB	MET	B	406	22.057	48.873	143.791	0.00	0.00	H
ATOM	17512	HCE	MET	B	406	20.371	46.104	144.131	0.00	0.00	H
ATOM	17513	HCE	MET	B	406	20.860	45.235	142.665	0.00	0.00	H
ATOM	17514	HCE	MET	B	406	21.905	46.507	143.321	0.00	0.00	H
ATOM	17515	HCG	MET	B	406	19.655	48.471	144.279	0.00	0.00	H
ATOM	17516	HCG	MET	B	406	19.209	49.486	142.908	0.00	0.00	H
ATOM	17517	N	ASN	B	407	20.712	52.650	142.675	0.00	0.00	N
ATOM	17518	CA	ASN	B	407	19.874	53.539	141.931	0.00	0.00	C

ATOM	17519	C	ASN	B	407	19.596	52.864	140.636	0.00	0.00	C
ATOM	17520	O	ASN	B	407	20.564	52.422	139.983	0.00	0.00	O
ATOM	17521	CB	ASN	B	407	20.619	54.897	141.771	0.00	0.00	C
ATOM	17522	CG	ASN	B	407	20.770	55.675	143.017	0.00	0.00	C
ATOM	17523	ND2	ASN	B	407	21.525	56.775	143.060	0.00	0.00	N
ATOM	17524	OD1	ASN	B	407	20.205	55.367	144.085	0.00	0.00	O
ATOM	17525	HN	ASN	B	407	21.628	52.562	142.369	0.00	0.00	H
ATOM	17526	HND2	ASN	B	407	22.016	57.058	142.296	0.00	0.00	H
ATOM	17527	HND2	ASN	B	407	21.575	57.275	143.887	0.00	0.00	H
ATOM	17528	HCA	ASN	B	407	18.927	53.724	142.442	0.00	0.00	H
ATOM	17529	HCN	ASN	B	407	21.612	54.718	141.351	0.00	0.00	H
ATOM	17530	HCN	ASN	B	407	20.067	55.525	141.072	0.00	0.00	H
ATOM	17531	N	VAL	B	408	18.342	52.659	140.180	0.00	0.00	N
ATOM	17532	CA	VAL	B	408	17.954	52.007	138.946	0.00	0.00	C
ATOM	17533	C	VAL	B	408	17.035	52.873	138.171	0.00	0.00	C
ATOM	17534	O	VAL	B	408	16.330	53.735	138.746	0.00	0.00	O
ATOM	17535	CB	VAL	B	408	17.324	50.606	139.264	0.00	0.00	C
ATOM	17536	CG1	VAL	B	408	16.496	49.959	138.113	0.00	0.00	C
ATOM	17537	CG2	VAL	B	408	18.428	49.604	139.702	0.00	0.00	C
ATOM	17538	HN	VAL	B	408	17.649	52.984	140.754	0.00	0.00	H
ATOM	17539	HCA	VAL	B	408	18.829	51.852	138.310	0.00	0.00	H
ATOM	17540	HCN	VAL	B	408	16.635	50.742	140.102	0.00	0.00	H
ATOM	17541	HCG1	VAL	B	408	15.638	50.577	137.846	0.00	0.00	H
ATOM	17542	HCG1	VAL	B	408	17.114	49.806	137.227	0.00	0.00	H
ATOM	17543	HCG1	VAL	B	408	16.097	48.998	138.428	0.00	0.00	H
ATOM	17544	HCG2	VAL	B	408	19.098	49.385	138.871	0.00	0.00	H
ATOM	17545	HCG2	VAL	B	408	19.017	50.012	140.523	0.00	0.00	H
ATOM	17546	HCG2	VAL	B	408	17.986	48.668	140.041	0.00	0.00	H
ATOM	17547	N	GLY	B	409	16.913	52.697	136.834	0.00	0.00	N
ATOM	17548	CA	GLY	B	409	15.964	53.380	136.022	0.00	0.00	C
ATOM	17549	C	GLY	B	409	16.525	54.612	135.447	0.00	0.00	C
ATOM	17550	O	GLY	B	409	17.647	54.553	134.890	0.00	0.00	O
ATOM	17551	HN	GLY	B	409	17.474	52.067	136.369	0.00	0.00	H
ATOM	17552	HCA	GLY	B	409	15.707	52.696	135.225	0.00	0.00	H
ATOM	17553	HCA	GLY	B	409	15.034	53.580	136.559	0.00	0.00	H
ATOM	17554	N	ALA	B	410	15.813	55.757	135.503	0.00	0.00	N
ATOM	17555	CA	ALA	B	410	16.206	57.040	135.001	0.00	0.00	C
ATOM	17556	C	ALA	B	410	16.364	57.953	136.174	0.00	0.00	C
ATOM	17557	O	ALA	B	410	15.339	58.145	136.876	0.00	0.00	O
ATOM	17558	CB	ALA	B	410	15.154	57.509	133.971	0.00	0.00	C
ATOM	17559	HN	ALA	B	410	14.950	55.719	135.949	0.00	0.00	H
ATOM	17560	HCA	ALA	B	410	17.143	56.967	134.451	0.00	0.00	H
ATOM	17561	HCN	ALA	B	410	14.150	57.316	134.345	0.00	0.00	H
ATOM	17562	HCN	ALA	B	410	15.258	58.575	133.767	0.00	0.00	H
ATOM	17563	HCN	ALA	B	410	15.279	56.969	133.032	0.00	0.00	H
ATOM	17564	N	PRO	B	411	17.550	58.521	136.562	0.00	0.00	N
ATOM	17565	CA	PRO	B	411	17.743	59.163	137.828	0.00	0.00	C
ATOM	17566	C	PRO	B	411	16.988	60.392	138.029	0.00	0.00	C
ATOM	17567	O	PRO	B	411	16.779	61.164	137.103	0.00	0.00	O
ATOM	17568	CB	PRO	B	411	19.271	59.318	137.992	0.00	0.00	C
ATOM	17569	CG	PRO	B	411	19.812	59.295	136.563	0.00	0.00	C
ATOM	17570	CD	PRO	B	411	18.751	58.486	135.800	0.00	0.00	C
ATOM	17571	HCA	PRO	B	411	17.415	58.440	138.568	0.00	0.00	H
ATOM	17572	HCN	PRO	B	411	19.558	60.232	138.512	0.00	0.00	H
ATOM	17573	HCN	PRO	B	411	19.670	58.458	138.536	0.00	0.00	H
ATOM	17574	HCD	PRO	B	411	18.569	58.926	134.826	0.00	0.00	H
ATOM	17575	HCD	PRO	B	411	19.085	57.456	135.685	0.00	0.00	H
ATOM	17576	HCG	PRO	B	411	19.885	60.308	136.173	0.00	0.00	H
ATOM	17577	HCG	PRO	B	411	20.799	58.829	136.507	0.00	0.00	H
ATOM	17578	N	ALA	B	412	16.497	60.613	139.233	0.00	0.00	N
ATOM	17579	CA	ALA	B	412	15.548	61.617	139.607	0.00	0.00	C
ATOM	17580	C	ALA	B	412	16.031	62.470	140.726	0.00	0.00	C
ATOM	17581	O	ALA	B	412	16.669	61.970	141.688	0.00	0.00	O
ATOM	17582	CB	ALA	B	412	14.256	60.860	139.983	0.00	0.00	C
ATOM	17583	HN	ALA	B	412	16.765	59.986	139.919	0.00	0.00	H
ATOM	17584	HCA	ALA	B	412	15.307	62.263	138.756	0.00	0.00	H
ATOM	17585	HCN	ALA	B	412	14.369	60.346	140.939	0.00	0.00	H
ATOM	17586	HCN	ALA	B	412	13.431	61.563	140.057	0.00	0.00	H
ATOM	17587	HCN	ALA	B	412	14.006	60.123	139.217	0.00	0.00	H
ATOM	17588	N	ALA	B	413	15.762	63.796	140.704	0.00	0.00	N
ATOM	17589	CA	ALA	B	413	16.159	64.752	141.693	0.00	0.00	C
ATOM	17590	C	ALA	B	413	15.769	64.337	143.070	0.00	0.00	C
ATOM	17591	O	ALA	B	413	14.566	64.367	143.414	0.00	0.00	O
ATOM	17592	CB	ALA	B	413	15.622	66.135	141.256	0.00	0.00	C
ATOM	17593	HN	ALA	B	413	15.259	64.127	139.946	0.00	0.00	H
ATOM	17594	HCA	ALA	B	413	17.240	64.837	141.664	0.00	0.00	H
ATOM	17595	HCN	ALA	B	413	14.537	66.168	141.352	0.00	0.00	H
ATOM	17596	HCN	ALA	B	413	16.058	66.923	141.867	0.00	0.00	H
ATOM	17597	HCN	ALA	B	413	15.888	66.342	140.216	0.00	0.00	H
ATOM	17598	N	GLY	B	414	16.727	63.858	143.901	0.00	0.00	N

ATOM	17599	CA	GLY	B	414	16.535	63.357	145.230	0.00	0.00	
ATOM	17600	C	GLY	B	414	17.000	61.969	145.444	0.00	0.00	
ATOM	17601	O	GLY	B	414	17.085	61.594	146.640	0.00	0.00	
ATOM	17602	HN	GLY	B	414	17.632	63.841	143.553	0.00	0.00	
ATOM	17603	HCA	GLY	B	414	17.113	64.002	145.893	0.00	0.00	
ATOM	17604	HCA	GLY	B	414	15.493	63.421	145.551	0.00	0.00	
ATOM	17605	N	MET	B	415	17.358	61.108	144.449	0.00	0.00	
ATOM	17606	CA	MET	B	415	17.900	59.787	144.715	0.00	0.00	
ATOM	17607	C	MET	B	415	19.049	59.843	145.663	0.00	0.00	
ATOM	17608	O	MET	B	415	19.032	59.123	146.688	0.00	0.00	
ATOM	17609	CB	MET	B	415	18.347	58.970	143.472	0.00	0.00	
ATOM	17610	CG	MET	B	415	17.241	58.659	142.445	0.00	0.00	
ATOM	17611	SD	MET	B	415	17.945	57.593	141.167	0.00	0.00	
ATOM	17612	CE	MET	B	415	16.416	56.883	140.533	0.00	0.00	
ATOM	17613	HN	MET	B	415	17.198	61.383	143.539	0.00	0.00	
ATOM	17614	HCA	MET	B	415	17.097	59.216	145.192	0.00	0.00	
ATOM	17615	HCB	MET	B	415	19.164	59.475	142.966	0.00	0.00	
ATOM	17616	HCB	MET	B	415	18.737	58.009	143.828	0.00	0.00	
ATOM	17617	HCE	MET	B	415	15.710	57.664	140.249	0.00	0.00	
ATOM	17618	HCE	MET	B	415	16.643	56.271	139.661	0.00	0.00	
ATOM	17619	HCE	MET	B	415	15.982	56.251	141.299	0.00	0.00	
ATOM	17620	HCG	MET	B	415	16.405	58.176	142.941	0.00	0.00	
ATOM	17621	HCG	MET	B	415	16.876	59.567	141.982	0.00	0.00	
ATOM	17622	N	ASN	B	416	20.071	60.705	145.458	0.00	0.00	
ATOM	17623	CA	ASN	B	416	21.136	60.953	146.402	0.00	0.00	
ATOM	17624	C	ASN	B	416	20.733	61.175	147.835	0.00	0.00	
ATOM	17625	O	ASN	B	416	21.525	60.826	148.748	0.00	0.00	
ATOM	17626	CB	ASN	B	416	21.989	62.153	145.903	0.00	0.00	
ATOM	17627	CG	ASN	B	416	22.644	61.931	144.605	0.00	0.00	
ATOM	17628	ND2	ASN	B	416	22.604	62.852	143.643	0.00	0.00	
ATOM	17629	OD1	ASN	B	416	23.296	60.889	144.380	0.00	0.00	
ATOM	17630	HN	ASN	B	416	20.103	61.133	144.588	0.00	0.00	
ATOM	17631	HND2	ASN	B	416	22.185	63.694	143.817	0.00	0.00	
ATOM	17632	HND2	ASN	B	416	23.000	62.638	142.797	0.00	0.00	
ATOM	17633	HCA	ASN	B	416	21.766	60.059	146.386	0.00	0.00	
ATOM	17634	HCB	ASN	B	416	21.361	63.046	145.862	0.00	0.00	
ATOM	17635	HCB	ASN	B	416	22.792	62.353	146.604	0.00	0.00	
ATOM	17636	N	ALA	B	417	19.526	61.685	148.188	0.00	0.00	
ATOM	17637	CA	ALA	B	417	19.082	61.952	149.531	0.00	0.00	
ATOM	17638	C	ALA	B	417	18.530	60.707	150.130	0.00	0.00	
ATOM	17639	O	ALA	B	417	18.855	60.379	151.298	0.00	0.00	
ATOM	17640	CB	ALA	B	417	18.040	63.096	149.506	0.00	0.00	
ATOM	17641	HN	ALA	B	417	18.843	61.764	147.521	0.00	0.00	
ATOM	17642	HCA	ALA	B	417	19.922	62.304	150.138	0.00	0.00	
ATOM	17643	HCB	ALA	B	417	18.456	63.982	149.026	0.00	0.00	
ATOM	17644	HCB	ALA	B	417	17.149	62.800	148.956	0.00	0.00	
ATOM	17645	HCB	ALA	B	417	17.748	63.363	150.524	0.00	0.00	
ATOM	17646	N	ALA	B	418	17.756	59.891	149.370	0.00	0.00	
ATOM	17647	CA	ALA	B	418	17.391	58.547	149.738	0.00	0.00	
ATOM	17648	C	ALA	B	418	18.599	57.701	149.981	0.00	0.00	
ATOM	17649	O	ALA	B	418	18.664	57.047	151.051	0.00	0.00	
ATOM	17650	CB	ALA	B	418	16.458	57.925	148.669	0.00	0.00	
ATOM	17651	HN	ALA	B	418	17.503	60.235	148.501	0.00	0.00	
ATOM	17652	HCA	ALA	B	418	16.813	58.600	150.667	0.00	0.00	
ATOM	17653	HCB	ALA	B	418	15.510	58.460	148.634	0.00	0.00	
ATOM	17654	HCB	ALA	B	418	16.913	57.964	147.681	0.00	0.00	
ATOM	17655	HCB	ALA	B	418	16.243	56.883	148.916	0.00	0.00	
ATOM	17656	N	VAL	B	419	19.645	57.694	149.112	0.00	0.00	
ATOM	17657	CA	VAL	B	419	20.919	57.040	149.333	0.00	0.00	
ATOM	17658	C	VAL	B	419	21.511	57.483	150.628	0.00	0.00	
ATOM	17659	O	VAL	B	419	21.784	56.602	151.483	0.00	0.00	
ATOM	17660	CB	VAL	B	419	21.948	57.231	148.163	0.00	0.00	
ATOM	17661	CG1	VAL	B	419	23.337	56.590	148.468	0.00	0.00	
ATOM	17662	CG2	VAL	B	419	21.442	56.656	146.813	0.00	0.00	
ATOM	17663	HN	VAL	B	419	19.505	58.176	148.298	0.00	0.00	
ATOM	17664	HCA	VAL	B	419	20.710	55.968	149.399	0.00	0.00	
ATOM	17665	HCB	VAL	B	419	22.106	58.303	148.024	0.00	0.00	
ATOM	17666	HCG1	VAL	B	419	23.227	55.530	148.703	0.00	0.00	
ATOM	17667	HCG1	VAL	B	419	24.009	56.685	147.615	0.00	0.00	
ATOM	17668	HCG1	VAL	B	419	23.818	57.085	149.312	0.00	0.00	
ATOM	17669	HCG2	VAL	B	419	20.473	57.067	146.547	0.00	0.00	
ATOM	17670	HCG2	VAL	B	419	22.138	56.906	146.011	0.00	0.00	
ATOM	17671	HCG2	VAL	B	419	21.352	55.570	146.865	0.00	0.00	
ATOM	17672	N	ARG	B	420	21.742	58.798	150.891	0.00	0.00	
ATOM	17673	CA	ARG	B	420	22.229	59.290	152.154	0.00	0.00	
ATOM	17674	C	ARG	B	420	21.493	58.721	153.314	0.00	0.00	
ATOM	17675	O	ARG	B	420	22.146	58.121	154.205	0.00	0.00	
ATOM	17676	CB	ARG	B	420	22.245	60.849	152.201	0.00	0.00	
ATOM	17677	CG	ARG	B	420	22.721	61.413	153.574	0.00	0.00	
ATOM	17678	CD	ARG	B	420	22.909	62.942	153.620	0.00	0.00	

ATOM	17679	NE	ARG	B	420	23.158	63.325	154.978	0.00	0.00	N
ATOM	17680	CZ	ARG	B	420	22.381	64.094	155.749	0.00	0.00	C
ATOM	17681	NH1	ARG	B	420	21.246	64.669	155.377	0.00	0.00	N
ATOM	17682	NH2	ARG	B	420	22.779	64.275	156.996	0.00	0.00	N
ATOM	17683	HN	ARG	B	420	21.604	59.437	150.183	0.00	0.00	H
ATOM	17684	HNE	ARG	B	420	23.948	62.978	155.407	0.00	0.00	H
ATOM	17685	HNH1	ARG	B	420	20.910	64.547	154.481	0.00	0.00	H
ATOM	17686	HNH1	ARG	B	420	20.744	65.201	156.006	0.00	0.00	H
ATOM	17687	HNH2	ARG	B	420	23.565	63.837	157.290	0.00	0.00	H
ATOM	17688	HNH2	ARG	B	420	22.267	64.829	157.599	0.00	0.00	H
ATOM	17689	HCA	ARG	B	420	23.266	58.962	152.224	0.00	0.00	H
ATOM	17690	HCB	ARG	B	420	22.901	61.214	151.408	0.00	0.00	H
ATOM	17691	HCB	ARG	B	420	21.242	61.227	151.997	0.00	0.00	H
ATOM	17692	HCD	ARG	B	420	23.763	63.231	153.001	0.00	0.00	H
ATOM	17693	HCD	ARG	B	420	22.019	63.416	153.207	0.00	0.00	H
ATOM	17694	HCG	ARG	B	420	21.977	61.148	154.332	0.00	0.00	H
ATOM	17695	HCG	ARG	B	420	23.665	60.942	153.853	0.00	0.00	H
ATOM	17696	N	SER	B	421	20.149	58.857	153.414	0.00	0.00	N
ATOM	17697	CA	SER	B	421	19.387	58.358	154.524	0.00	0.00	C
ATOM	17698	C	SER	B	421	19.515	56.892	154.717	0.00	0.00	C
ATOM	17699	O	SER	B	421	19.816	56.467	155.860	0.00	0.00	O
ATOM	17700	CB	SER	B	421	17.918	58.833	154.501	0.00	0.00	C
ATOM	17701	OG	SER	B	421	17.129	58.215	153.496	0.00	0.00	O
ATOM	17702	HN	SER	B	421	19.695	59.326	152.709	0.00	0.00	H
ATOM	17703	HCA	SER	B	421	19.823	58.838	155.397	0.00	0.00	H
ATOM	17704	HCB	SER	B	421	17.454	58.632	155.470	0.00	0.00	H
ATOM	17705	HCB	SER	B	421	17.906	59.907	154.331	0.00	0.00	H
ATOM	17706	HOG	SER	B	421	16.227	58.513	153.697	0.00	0.00	H
ATOM	17707	N	THR	B	422	19.425	56.040	153.667	0.00	0.00	N
ATOM	17708	CA	THR	B	422	19.686	54.622	153.724	0.00	0.00	C
ATOM	17709	C	THR	B	422	21.018	54.340	154.336	0.00	0.00	C
ATOM	17710	O	THR	B	422	21.068	53.632	155.372	0.00	0.00	O
ATOM	17711	CB	THR	B	422	19.564	53.977	152.307	0.00	0.00	C
ATOM	17712	CG2	THR	B	422	19.639	52.437	152.307	0.00	0.00	C
ATOM	17713	OG1	THR	B	422	18.308	54.296	151.711	0.00	0.00	O
ATOM	17714	HN	THR	B	422	19.179	56.414	152.818	0.00	0.00	H
ATOM	17715	HCA	THR	B	422	18.905	54.180	154.350	0.00	0.00	H
ATOM	17716	HCB	THR	B	422	20.354	54.362	151.657	0.00	0.00	H
ATOM	17717	HCG2	THR	B	422	18.810	52.031	152.885	0.00	0.00	H
ATOM	17718	HCG2	THR	B	422	19.561	52.059	151.288	0.00	0.00	H
ATOM	17719	HCG2	THR	B	422	20.583	52.090	152.729	0.00	0.00	H
ATOM	17720	HOG1	THR	B	422	18.386	55.233	151.490	0.00	0.00	H
ATOM	17721	N	VAL	B	423	22.150	54.895	153.832	0.00	0.00	N
ATOM	17722	CA	VAL	B	423	23.486	54.727	154.364	0.00	0.00	C
ATOM	17723	C	VAL	B	423	23.559	55.069	155.813	0.00	0.00	C
ATOM	17724	O	VAL	B	423	23.930	54.213	156.658	0.00	0.00	O
ATOM	17725	CB	VAL	B	423	24.520	55.507	153.472	0.00	0.00	C
ATOM	17726	CG1	VAL	B	423	25.944	55.600	154.093	0.00	0.00	C
ATOM	17727	CG2	VAL	B	423	24.644	54.878	152.053	0.00	0.00	C
ATOM	17728	HN	VAL	B	423	22.042	55.459	153.061	0.00	0.00	H
ATOM	17729	HCA	VAL	B	423	23.742	53.676	154.289	0.00	0.00	H
ATOM	17730	HCB	VAL	B	423	24.156	56.531	153.348	0.00	0.00	H
ATOM	17731	HCG1	VAL	B	423	26.334	54.603	154.310	0.00	0.00	H
ATOM	17732	HCG1	VAL	B	423	26.633	56.102	153.412	0.00	0.00	H
ATOM	17733	HCG1	VAL	B	423	25.924	56.180	155.016	0.00	0.00	H
ATOM	17734	HCG2	VAL	B	423	25.093	53.886	152.109	0.00	0.00	H
ATOM	17735	HCG2	VAL	B	423	23.666	54.787	151.582	0.00	0.00	H
ATOM	17736	HCG2	VAL	B	423	25.269	55.498	151.408	0.00	0.00	H
ATOM	17737	N	ARG	B	424	23.188	56.300	156.218	0.00	0.00	N
ATOM	17738	CA	ARG	B	424	23.237	56.796	157.565	0.00	0.00	C
ATOM	17739	C	ARG	B	424	22.478	55.942	158.532	0.00	0.00	C
ATOM	17740	O	ARG	B	424	23.042	55.511	159.572	0.00	0.00	O
ATOM	17741	CB	ARG	B	424	22.701	58.256	157.519	0.00	0.00	C
ATOM	17742	CG	ARG	B	424	23.607	59.288	156.768	0.00	0.00	C
ATOM	17743	CD	ARG	B	424	24.714	59.863	157.671	0.00	0.00	C
ATOM	17744	NE	ARG	B	424	25.713	60.622	156.999	0.00	0.00	N
ATOM	17745	CZ	ARG	B	424	25.921	61.935	157.065	0.00	0.00	C
ATOM	17746	NH1	ARG	B	424	25.238	62.847	157.750	0.00	0.00	N
ATOM	17747	NH2	ARG	B	424	26.988	62.309	156.384	0.00	0.00	N
ATOM	17748	HN	ARG	B	424	22.855	56.892	155.540	0.00	0.00	H
ATOM	17749	HNE	ARG	B	424	26.399	60.156	156.508	0.00	0.00	H
ATOM	17750	HNH1	ARG	B	424	24.543	62.609	158.369	0.00	0.00	H
ATOM	17751	HNH1	ARG	B	424	25.531	63.766	157.700	0.00	0.00	H
ATOM	17752	HNH2	ARG	B	424	27.522	61.594	156.034	0.00	0.00	H
ATOM	17753	HNH2	ARG	B	424	27.253	63.232	156.310	0.00	0.00	H
ATOM	17754	HCA	ARG	B	424	24.283	56.818	157.882	0.00	0.00	H
ATOM	17755	HCB	ARG	B	424	21.734	58.223	157.015	0.00	0.00	H
ATOM	17756	HCB	ARG	B	424	22.521	58.610	158.538	0.00	0.00	H
ATOM	17757	HCD	ARG	B	424	24.246	60.434	158.475	0.00	0.00	H
ATOM	17758	HCD	ARG	B	424	25.238	59.023	158.106	0.00	0.00	H

ATOM	17759	HCG	ARG	B	424	24.062	58.825	155.892	0.00	0.00	
ATOM	17760	HCG	ARG	B	424	22.989	60.119	156.424	0.00	0.00	
ATOM	17761	N	ILE	B	425	21.193	55.592	158.280	0.00	0.00	
ATOM	17762	CA	ILE	B	425	20.392	54.741	159.121	0.00	0.00	
ATOM	17763	C	ILE	B	425	20.953	53.360	159.188	0.00	0.00	
ATOM	17764	O	ILE	B	425	21.069	52.827	160.317	0.00	0.00	
ATOM	17765	CB	ILE	B	425	18.895	54.802	158.668	0.00	0.00	
ATOM	17766	CG1	ILE	B	425	18.275	56.235	158.810	0.00	0.00	
ATOM	17767	CG2	ILE	B	425	17.992	53.744	159.360	0.00	0.00	
ATOM	17768	CD1	ILE	B	425	18.208	56.854	160.228	0.00	0.00	
ATOM	17769	HN	ILE	B	425	20.786	55.906	157.468	0.00	0.00	
ATOM	17770	HCA	ILE	B	425	20.433	55.144	160.136	0.00	0.00	
ATOM	17771	HCB	ILE	B	425	18.874	54.555	157.599	0.00	0.00	
ATOM	17772	HCD1	ILE	B	425	17.684	56.194	160.919	0.00	0.00	
ATOM	17773	HCD1	ILE	B	425	19.207	57.056	160.613	0.00	0.00	
ATOM	17774	HCD1	ILE	B	425	17.668	57.803	160.189	0.00	0.00	
ATOM	17775	HCG1	ILE	B	425	18.835	56.922	158.179	0.00	0.00	
ATOM	17776	HCG1	ILE	B	425	17.259	56.218	158.418	0.00	0.00	
ATOM	17777	HCG2	ILE	B	425	18.312	52.732	159.107	0.00	0.00	
ATOM	17778	HCG2	ILE	B	425	18.017	53.853	160.445	0.00	0.00	
ATOM	17779	HCG2	ILE	B	425	16.967	53.860	159.009	0.00	0.00	
ATOM	17780	N	GLY	B	426	21.380	52.682	158.095	0.00	0.00	
ATOM	17781	CA	GLY	B	426	22.032	51.402	158.133	0.00	0.00	
ATOM	17782	C	GLY	B	426	23.221	51.348	159.002	0.00	0.00	
ATOM	17783	O	GLY	B	426	23.356	50.423	159.841	0.00	0.00	
ATOM	17784	HN	GLY	B	426	21.256	53.075	157.227	0.00	0.00	
ATOM	17785	HCA	GLY	B	426	21.313	50.633	158.421	0.00	0.00	
ATOM	17786	HCA	GLY	B	426	22.383	51.178	157.133	0.00	0.00	
ATOM	17787	N	LEU	B	427	24.143	52.330	158.908	0.00	0.00	
ATOM	17788	CA	LEU	B	427	25.247	52.469	159.810	0.00	0.00	
ATOM	17789	C	LEU	B	427	24.802	52.636	161.226	0.00	0.00	
ATOM	17790	O	LEU	B	427	25.318	51.882	162.083	0.00	0.00	
ATOM	17791	CB	LEU	B	427	26.168	53.621	159.338	0.00	0.00	
ATOM	17792	CG	LEU	B	427	26.879	53.378	157.967	0.00	0.00	
ATOM	17793	CD1	LEU	B	427	27.444	54.712	157.426	0.00	0.00	
ATOM	17794	CD2	LEU	B	427	28.013	52.318	158.041	0.00	0.00	
ATOM	17795	HN	LEU	B	427	24.045	52.971	158.197	0.00	0.00	
ATOM	17796	HCA	LEU	B	427	25.829	51.544	159.758	0.00	0.00	
ATOM	17797	HCB	LEU	B	427	25.567	54.533	159.289	0.00	0.00	
ATOM	17798	HCB	LEU	B	427	26.933	53.776	160.097	0.00	0.00	
ATOM	17799	HCD1	LEU	B	427	26.649	55.453	157.331	0.00	0.00	
ATOM	17800	HCD1	LEU	B	427	28.208	55.098	158.101	0.00	0.00	
ATOM	17801	HCD1	LEU	B	427	27.882	54.563	156.438	0.00	0.00	
ATOM	17802	HCD2	LEU	B	427	27.615	51.338	158.302	0.00	0.00	
ATOM	17803	HCD2	LEU	B	427	28.505	52.219	157.070	0.00	0.00	
ATOM	17804	HCD2	LEU	B	427	28.763	52.601	158.782	0.00	0.00	
ATOM	17805	HCG	LEU	B	427	26.147	53.019	157.238	0.00	0.00	
ATOM	17806	N	ILE	B	428	23.839	53.510	161.625	0.00	0.00	
ATOM	17807	CA	ILE	B	428	23.311	53.558	162.982	0.00	0.00	
ATOM	17808	C	ILE	B	428	22.798	52.233	163.444	0.00	0.00	
ATOM	17809	O	ILE	B	428	23.150	51.821	164.577	0.00	0.00	
ATOM	17810	CB	ILE	B	428	22.280	54.718	163.211	0.00	0.00	
ATOM	17811	CG1	ILE	B	428	23.001	56.100	163.120	0.00	0.00	
ATOM	17812	CG2	ILE	B	428	21.546	54.599	164.586	0.00	0.00	
ATOM	17813	CD1	ILE	B	428	22.067	57.300	162.854	0.00	0.00	
ATOM	17814	HN	ILE	B	428	23.511	54.132	160.965	0.00	0.00	
ATOM	17815	HCA	ILE	B	428	24.164	53.796	163.622	0.00	0.00	
ATOM	17816	HCB	ILE	B	428	21.526	54.657	162.420	0.00	0.00	
ATOM	17817	HCD1	ILE	B	428	21.549	57.181	161.900	0.00	0.00	
ATOM	17818	HCD1	ILE	B	428	21.337	57.410	163.651	0.00	0.00	
ATOM	17819	HCD1	ILE	B	428	22.653	58.214	162.824	0.00	0.00	
ATOM	17820	HCG1	ILE	B	428	23.567	56.289	164.037	0.00	0.00	
ATOM	17821	HCG1	ILE	B	428	23.721	56.067	162.307	0.00	0.00	
ATOM	17822	HCG2	ILE	B	428	20.891	53.727	164.602	0.00	0.00	
ATOM	17823	HCG2	ILE	B	428	22.268	54.511	165.401	0.00	0.00	
ATOM	17824	HCG2	ILE	B	428	20.924	55.465	164.784	0.00	0.00	
ATOM	17825	N	GLN	B	429	22.005	51.460	162.664	0.00	0.00	
ATOM	17826	CA	GLN	B	429	21.604	50.110	162.984	0.00	0.00	
ATOM	17827	C	GLN	B	429	22.728	49.195	163.249	0.00	0.00	
ATOM	17828	O	GLN	B	429	22.469	48.108	163.755	0.00	0.00	
ATOM	17829	CB	GLN	B	429	20.750	49.490	161.834	0.00	0.00	
ATOM	17830	CG	GLN	B	429	19.368	50.123	161.498	0.00	0.00	
ATOM	17831	CD	GLN	B	429	18.782	49.593	160.241	0.00	0.00	
ATOM	17832	NE2	GLN	B	429	17.516	49.863	159.895	0.00	0.00	
ATOM	17833	OE1	GLN	B	429	19.432	48.861	159.455	0.00	0.00	
ATOM	17834	HN	GLN	B	429	21.702	51.858	161.849	0.00	0.00	
ATOM	17835	HNE2	GLN	B	429	16.928	50.365	160.461	0.00	0.00	
ATOM	17836	HNE2	GLN	B	429	17.162	49.525	159.073	0.00	0.00	
ATOM	17837	HCA	GLN	B	429	20.984	50.156	163.885	0.00	0.00	
ATOM	17838	HCB	GLN	B	429	21.365	49.493	160.935	0.00	0.00	



ATOM	17839	HCB	GLN	B	429	20.539	48.444	162.079	0.00	0.00	H
ATOM	17840	HCG	GLN	B	429	18.679	49.913	162.319	0.00	0.00	H
ATOM	17841	HCG	GLN	B	429	19.455	51.203	161.405	0.00	0.00	H
ATOM	17842	N	GLY	B	430	23.987	49.474	162.938	0.00	0.00	N
ATOM	17843	CA	GLY	B	430	25.104	48.586	163.049	0.00	0.00	C
ATOM	17844	C	GLY	B	430	25.332	47.746	161.854	0.00	0.00	C
ATOM	17845	O	GLY	B	430	26.095	46.764	162.007	0.00	0.00	O
ATOM	17846	HN	GLY	B	430	24.219	50.339	162.598	0.00	0.00	H
ATOM	17847	HCA	GLY	B	430	25.998	49.190	163.208	0.00	0.00	H
ATOM	17848	HCA	GLY	B	430	24.993	47.941	163.926	0.00	0.00	H
ATOM	17849	N	ASN	B	431	24.777	48.014	160.643	0.00	0.00	N
ATOM	17850	CA	ASN	B	431	24.827	47.165	159.479	0.00	0.00	C
ATOM	17851	C	ASN	B	431	25.722	47.707	158.417	0.00	0.00	C
ATOM	17852	O	ASN	B	431	25.978	48.934	158.386	0.00	0.00	O
ATOM	17853	CB	ASN	B	431	23.366	46.955	158.968	0.00	0.00	C
ATOM	17854	CG	ASN	B	431	22.494	46.269	159.944	0.00	0.00	C
ATOM	17855	ND2	ASN	B	431	21.238	46.636	160.236	0.00	0.00	N
ATOM	17856	OD1	ASN	B	431	22.904	45.251	160.544	0.00	0.00	O
ATOM	17857	HN	ASN	B	431	24.303	48.840	160.516	0.00	0.00	H
ATOM	17858	HND2	ASN	B	431	20.788	47.398	159.857	0.00	0.00	H
ATOM	17859	HND2	ASN	B	431	20.760	46.099	160.883	0.00	0.00	H
ATOM	17860	HCA	ASN	B	431	25.236	46.187	159.742	0.00	0.00	H
ATOM	17861	HCB	ASN	B	431	22.922	47.916	158.695	0.00	0.00	H
ATOM	17862	HCB	ASN	B	431	23.386	46.335	158.069	0.00	0.00	H
ATOM	17863	N	ARG	B	432	26.250	46.880	157.476	0.00	0.00	N
ATOM	17864	CA	ARG	B	432	27.077	47.319	156.372	0.00	0.00	C
ATOM	17865	C	ARG	B	432	26.237	47.907	155.292	0.00	0.00	C
ATOM	17866	O	ARG	B	432	25.103	47.402	155.077	0.00	0.00	O
ATOM	17867	CB	ARG	B	432	27.961	46.205	155.737	0.00	0.00	C
ATOM	17868	CG	ARG	B	432	28.755	45.274	156.691	0.00	0.00	C
ATOM	17869	CD	ARG	B	432	29.877	44.478	155.962	0.00	0.00	C
ATOM	17870	NE	ARG	B	432	29.400	43.779	154.807	0.00	0.00	N
ATOM	17871	CZ	ARG	B	432	30.128	43.103	153.916	0.00	0.00	C
ATOM	17872	NH1	ARG	B	432	31.437	42.919	153.954	0.00	0.00	N
ATOM	17873	NH2	ARG	B	432	29.398	42.609	152.934	0.00	0.00	N
ATOM	17874	HN	ARG	B	432	25.977	45.963	157.523	0.00	0.00	H
ATOM	17875	HNE	ARG	B	432	28.466	43.788	154.587	0.00	0.00	H
ATOM	17876	HNH1	ARG	B	432	31.952	43.296	154.678	0.00	0.00	H
ATOM	17877	HNH1	ARG	B	432	31.869	42.415	153.255	0.00	0.00	H
ATOM	17878	HNH2	ARG	B	432	28.474	42.792	153.003	0.00	0.00	H
ATOM	17879	HNH2	ARG	B	432	29.715	42.103	152.188	0.00	0.00	H
ATOM	17880	HCA	ARG	B	432	27.760	48.095	156.738	0.00	0.00	H
ATOM	17881	HCB	ARG	B	432	27.349	45.578	155.090	0.00	0.00	H
ATOM	17882	HCB	ARG	B	432	28.684	46.708	155.092	0.00	0.00	H
ATOM	17883	HCD	ARG	B	432	30.659	45.182	155.658	0.00	0.00	H
ATOM	17884	HCD	ARG	B	432	30.319	43.764	156.663	0.00	0.00	H
ATOM	17885	HCG	ARG	B	432	29.217	45.877	157.478	0.00	0.00	H
ATOM	17886	HCG	ARG	B	432	28.067	44.573	157.172	0.00	0.00	H
ATOM	17887	N	VAL	B	433	26.714	48.887	154.481	0.00	0.00	N
ATOM	17888	CA	VAL	B	433	25.961	49.495	153.415	0.00	0.00	C
ATOM	17889	C	VAL	B	433	26.856	49.653	152.241	0.00	0.00	C
ATOM	17890	O	VAL	B	433	27.807	50.473	152.234	0.00	0.00	O
ATOM	17891	CB	VAL	B	433	25.181	50.806	153.767	0.00	0.00	C
ATOM	17892	CG1	VAL	B	433	24.124	51.099	152.653	0.00	0.00	C
ATOM	17893	CG2	VAL	B	433	24.484	50.721	155.151	0.00	0.00	C
ATOM	17894	HN	VAL	B	433	27.649	49.120	154.554	0.00	0.00	H
ATOM	17895	HCA	VAL	B	433	25.187	48.780	153.130	0.00	0.00	H
ATOM	17896	HCB	VAL	B	433	25.887	51.643	153.811	0.00	0.00	H
ATOM	17897	HCG1	VAL	B	433	24.624	51.284	151.701	0.00	0.00	H
ATOM	17898	HCG1	VAL	B	433	23.443	50.255	152.526	0.00	0.00	H
ATOM	17899	HCG1	VAL	B	433	23.518	51.969	152.884	0.00	0.00	H
ATOM	17900	HCG2	VAL	B	433	23.810	49.864	155.193	0.00	0.00	H
ATOM	17901	HCG2	VAL	B	433	25.225	50.623	155.947	0.00	0.00	H
ATOM	17902	HCG2	VAL	B	433	23.911	51.624	155.348	0.00	0.00	H
ATOM	17903	N	LEU	B	434	26.614	48.859	151.179	0.00	0.00	N
ATOM	17904	CA	LEU	B	434	27.383	48.723	149.996	0.00	0.00	C
ATOM	17905	C	LEU	B	434	26.691	49.445	148.893	0.00	0.00	C
ATOM	17906	O	LEU	B	434	25.445	49.457	148.784	0.00	0.00	O
ATOM	17907	CB	LEU	B	434	27.678	47.215	149.714	0.00	0.00	C
ATOM	17908	CG	LEU	B	434	28.701	46.546	150.700	0.00	0.00	C
ATOM	17909	CD1	LEU	B	434	28.109	46.289	152.112	0.00	0.00	C
ATOM	17910	CD2	LEU	B	434	29.280	45.210	150.163	0.00	0.00	C
ATOM	17911	HN	LEU	B	434	25.836	48.318	151.232	0.00	0.00	H
ATOM	17912	HCA	LEU	B	434	28.340	49.214	150.153	0.00	0.00	H
ATOM	17913	HCB	LEU	B	434	26.742	46.649	149.707	0.00	0.00	H
ATOM	17914	HCB	LEU	B	434	28.094	47.157	148.708	0.00	0.00	H
ATOM	17915	HCD1	LEU	B	434	27.130	45.809	152.050	0.00	0.00	H
ATOM	17916	HCD1	LEU	B	434	28.773	45.655	152.700	0.00	0.00	H
ATOM	17917	HCD1	LEU	B	434	28.012	47.223	152.656	0.00	0.00	H
ATOM	17918	HCD2	LEU	B	434	28.538	44.419	150.218	0.00	0.00	H

ATOM	17919	HCD2	LEU	B	434	29.617	45.309	149.134	0.00	0.00	H
ATOM	17920	HCD2	LEU	B	434	30.140	44.904	150.764	0.00	0.00	H
ATOM	17921	HCG	LEU	B	434	29.555	47.223	150.814	0.00	0.00	H
ATOM	17922	N	VAL	B	435	27.449	50.150	148.037	0.00	0.00	N
ATOM	17923	CA	VAL	B	435	27.040	51.123	147.067	0.00	0.00	C
ATOM	17924	C	VAL	B	435	27.399	50.636	145.707	0.00	0.00	C
ATOM	17925	O	VAL	B	435	28.567	50.234	145.461	0.00	0.00	O
ATOM	17926	CB	VAL	B	435	27.652	52.531	147.398	0.00	0.00	C
ATOM	17927	CG1	VAL	B	435	26.727	53.381	148.309	0.00	0.00	C
ATOM	17928	CG2	VAL	B	435	29.075	52.464	148.003	0.00	0.00	C
ATOM	17929	HN	VAL	B	435	28.380	49.976	148.130	0.00	0.00	H
ATOM	17930	HCA	VAL	B	435	25.951	51.228	147.100	0.00	0.00	H
ATOM	17931	HCB	VAL	B	435	27.751	53.081	146.462	0.00	0.00	H
ATOM	17932	HCG1	VAL	B	435	25.770	53.549	147.817	0.00	0.00	H
ATOM	17933	HCG1	VAL	B	435	26.549	52.874	149.260	0.00	0.00	H
ATOM	17934	HCG1	VAL	B	435	27.167	54.361	148.503	0.00	0.00	H
ATOM	17935	HCG2	VAL	B	435	29.056	52.046	149.010	0.00	0.00	H
ATOM	17936	HCG2	VAL	B	435	29.687	51.823	147.380	0.00	0.00	H
ATOM	17937	HCG2	VAL	B	435	29.532	53.452	148.041	0.00	0.00	H
ATOM	17938	N	VAL	B	436	26.410	50.607	144.782	0.00	0.00	N
ATOM	17939	CA	VAL	B	436	26.413	49.959	143.499	0.00	0.00	C
ATOM	17940	C	VAL	B	436	26.492	50.934	142.371	0.00	0.00	C
ATOM	17941	O	VAL	B	436	25.623	51.835	142.307	0.00	0.00	O
ATOM	17942	CB	VAL	B	436	25.083	49.129	143.439	0.00	0.00	C
ATOM	17943	CG1	VAL	B	436	24.920	48.349	142.111	0.00	0.00	C
ATOM	17944	CG2	VAL	B	436	24.915	48.163	144.650	0.00	0.00	C
ATOM	17945	HN	VAL	B	436	25.558	50.974	145.068	0.00	0.00	H
ATOM	17946	HCA	VAL	B	436	27.257	49.268	143.426	0.00	0.00	H
ATOM	17947	HCB	VAL	B	436	24.252	49.838	143.485	0.00	0.00	H
ATOM	17948	HCG1	VAL	B	436	24.926	49.026	141.255	0.00	0.00	H
ATOM	17949	HCG1	VAL	B	436	25.727	47.626	141.996	0.00	0.00	H
ATOM	17950	HCG1	VAL	B	436	23.964	47.823	142.099	0.00	0.00	H
ATOM	17951	HCG2	VAL	B	436	25.825	47.594	144.818	0.00	0.00	H
ATOM	17952	HCG2	VAL	B	436	24.699	48.724	145.561	0.00	0.00	H
ATOM	17953	HCG2	VAL	B	436	24.091	47.467	144.489	0.00	0.00	H
ATOM	17954	N	HSP	B	437	27.435	50.832	141.397	0.00	0.00	N
ATOM	17955	CA	HSP	B	437	27.575	51.740	140.270	0.00	0.00	C
ATOM	17956	C	HSP	B	437	26.966	51.265	138.981	0.00	0.00	C
ATOM	17957	O	HSP	B	437	27.385	50.201	138.473	0.00	0.00	O
ATOM	17958	CB	HSP	B	437	29.092	52.043	140.086	0.00	0.00	C
ATOM	17959	CG	HSP	B	437	29.697	52.752	141.235	0.00	0.00	C
ATOM	17960	CD2	HSP	B	437	30.680	52.330	142.129	0.00	0.00	C
ATOM	17961	ND1	HSP	B	437	29.382	54.002	141.587	0.00	0.00	N
ATOM	17962	CE1	HSP	B	437	30.112	54.376	142.646	0.00	0.00	C
ATOM	17963	NE2	HSP	B	437	30.915	53.353	142.969	0.00	0.00	N
ATOM	17964	HN	HSP	B	437	28.082	50.123	141.505	0.00	0.00	H
ATOM	17965	HND1	HSP	B	437	28.734	54.522	141.116	0.00	0.00	H
ATOM	17966	HNE2	HSP	B	437	31.560	53.378	143.682	0.00	0.00	H
ATOM	17967	HCA	HSP	B	437	27.091	52.692	140.506	0.00	0.00	H
ATOM	17968	HCB	HSP	B	437	29.621	51.111	139.913	0.00	0.00	H
ATOM	17969	HCB	HSP	B	437	29.238	52.670	139.202	0.00	0.00	H
ATOM	17970	HCD2	HSP	B	437	31.143	51.419	142.138	0.00	0.00	H
ATOM	17971	HCE1	HSP	B	437	30.073	55.285	143.118	0.00	0.00	H
ATOM	17972	N	ASP	B	438	25.984	51.972	138.355	0.00	0.00	N
ATOM	17973	CA	ASP	B	438	25.325	51.731	137.087	0.00	0.00	C
ATOM	17974	C	ASP	B	438	24.269	50.688	137.247	0.00	0.00	C
ATOM	17975	O	ASP	B	438	24.201	49.651	136.542	0.00	0.00	O
ATOM	17976	CB	ASP	B	438	26.243	51.709	135.818	0.00	0.00	C
ATOM	17977	CG	ASP	B	438	26.657	53.066	135.374	0.00	0.00	C
ATOM	17978	OD1	ASP	B	438	26.291	53.574	134.284	0.00	0.00	O
ATOM	17979	OD2	ASP	B	438	27.359	53.783	136.117	0.00	0.00	O
ATOM	17980	HN	ASP	B	438	25.580	52.690	138.847	0.00	0.00	H
ATOM	17981	HCA	ASP	B	438	24.716	52.618	136.914	0.00	0.00	H
ATOM	17982	HCB	ASP	B	438	27.135	51.111	136.003	0.00	0.00	H
ATOM	17983	HCB	ASP	B	438	25.700	51.243	134.992	0.00	0.00	H
ATOM	17984	N	GLY	B	439	23.325	50.949	138.187	0.00	0.00	N
ATOM	17985	CA	GLY	B	439	22.191	50.149	138.561	0.00	0.00	C
ATOM	17986	C	GLY	B	439	22.322	48.687	138.421	0.00	0.00	C
ATOM	17987	O	GLY	B	439	23.338	48.146	138.909	0.00	0.00	O
ATOM	17988	HN	GLY	B	439	23.430	51.801	138.622	0.00	0.00	H
ATOM	17989	HCA	GLY	B	439	22.010	50.333	139.621	0.00	0.00	H
ATOM	17990	HCA	GLY	B	439	21.321	50.505	138.007	0.00	0.00	H
ATOM	17991	N	PHE	B	440	21.393	47.945	137.773	0.00	0.00	N
ATOM	17992	CA	PHE	B	440	21.430	46.511	137.640	0.00	0.00	C
ATOM	17993	C	PHE	B	440	22.576	45.980	136.848	0.00	0.00	C
ATOM	17994	O	PHE	B	440	22.683	44.732	136.762	0.00	0.00	O
ATOM	17995	CB	PHE	B	440	20.057	45.991	137.092	0.00	0.00	C
ATOM	17996	CG	PHE	B	440	19.018	45.776	138.139	0.00	0.00	C
ATOM	17997	CD1	PHE	B	440	19.234	44.840	139.180	0.00	0.00	C
ATOM	17998	CD2	PHE	B	440	17.780	46.456	138.094	0.00	0.00	C

ATOM	17999	CE1	PHE	B	440	18.253	44.608	140.161	0.00	0.00		C
ATOM	18000	CE2	PHE	B	440	16.794	46.217	139.070	0.00	0.00		C
ATOM	18001	CZ	PHE	B	440	17.030	45.296	140.104	0.00	0.00		C
ATOM	18002	HN	PHE	B	440	20.646	48.416	137.376	0.00	0.00		H
ATOM	18003	HCA	PHE	B	440	21.584	46.108	138.645	0.00	0.00		H
ATOM	18004	HCN	PHE	B	440	19.703	46.677	136.317	0.00	0.00		H
ATOM	18005	HCN	PHE	B	440	20.177	45.023	136.598	0.00	0.00		H
ATOM	18006	HCD1	PHE	B	440	20.109	44.313	139.229	0.00	0.00		H
ATOM	18007	HCD2	PHE	B	440	17.585	47.126	137.346	0.00	0.00		H
ATOM	18008	HCE1	PHE	B	440	18.430	43.937	140.912	0.00	0.00		H
ATOM	18009	HCE2	PHE	B	440	15.904	46.714	139.032	0.00	0.00		H
ATOM	18010	HCZ	PHE	B	440	16.313	45.127	140.811	0.00	0.00		H
ATOM	18011	N	GLU	B	441	23.544	46.763	136.311	0.00	0.00		N
ATOM	18012	CA	GLU	B	441	24.726	46.284	135.650	0.00	0.00		C
ATOM	18013	C	GLU	B	441	25.861	46.295	136.616	0.00	0.00		C
ATOM	18014	O	GLU	B	441	26.847	45.533	136.444	0.00	0.00		O
ATOM	18015	CB	GLU	B	441	24.981	47.113	134.355	0.00	0.00		C
ATOM	18016	CG	GLU	B	441	23.674	47.337	133.532	0.00	0.00		C
ATOM	18017	CD	GLU	B	441	23.842	47.798	132.148	0.00	0.00		C
ATOM	18018	OE1	GLU	B	441	24.598	48.748	131.856	0.00	0.00		O
ATOM	18019	OE2	GLU	B	441	23.123	47.314	131.246	0.00	0.00		O
ATOM	18020	HN	GLU	B	441	23.523	47.720	136.424	0.00	0.00		H
ATOM	18021	HCA	GLU	B	441	24.582	45.250	135.329	0.00	0.00		H
ATOM	18022	HCN	GLU	B	441	25.405	48.089	134.612	0.00	0.00		H
ATOM	18023	HCN	GLU	B	441	25.716	46.586	133.738	0.00	0.00		H
ATOM	18024	HCG	GLU	B	441	23.096	46.409	133.515	0.00	0.00		H
ATOM	18025	HCG	GLU	B	441	23.070	48.094	134.036	0.00	0.00		H
ATOM	18026	N	GLY	B	442	25.784	47.029	137.756	0.00	0.00		N
ATOM	18027	CA	GLY	B	442	26.774	47.096	138.775	0.00	0.00		C
ATOM	18028	C	GLY	B	442	26.992	45.767	139.382	0.00	0.00		C
ATOM	18029	O	GLY	B	442	28.172	45.357	139.326	0.00	0.00		O
ATOM	18030	HN	GLY	B	442	24.969	47.499	137.951	0.00	0.00		H
ATOM	18031	HCA	GLY	B	442	27.694	47.493	138.339	0.00	0.00		H
ATOM	18032	HCA	GLY	B	442	26.449	47.793	139.546	0.00	0.00		H
ATOM	18033	N	PRO	B	443	26.000	44.969	139.892	0.00	0.00		N
ATOM	18034	CA	PRO	B	443	26.194	43.601	140.290	0.00	0.00		C
ATOM	18035	C	PRO	B	443	26.276	42.655	139.182	0.00	0.00		C
ATOM	18036	O	PRO	B	443	26.429	41.481	139.482	0.00	0.00		O
ATOM	18037	CB	PRO	B	443	25.002	43.296	141.248	0.00	0.00		C
ATOM	18038	CG	PRO	B	443	24.203	44.604	141.330	0.00	0.00		C
ATOM	18039	CD	PRO	B	443	24.635	45.351	140.065	0.00	0.00		C
ATOM	18040	HCA	PRO	B	443	27.125	43.517	140.860	0.00	0.00		H
ATOM	18041	HCN	PRO	B	443	24.352	42.505	140.864	0.00	0.00		H
ATOM	18042	HCN	PRO	B	443	25.352	42.993	142.239	0.00	0.00		H
ATOM	18043	HCD	PRO	B	443	24.044	45.018	139.207	0.00	0.00		H
ATOM	18044	HCD	PRO	B	443	24.497	46.416	140.200	0.00	0.00		H
ATOM	18045	HCG	PRO	B	443	23.123	44.430	141.346	0.00	0.00		H
ATOM	18046	HCG	PRO	B	443	24.489	45.170	142.222	0.00	0.00		H
ATOM	18047	N	ALA	B	444	26.250	42.980	137.898	0.00	0.00		N
ATOM	18048	CA	ALA	B	444	26.485	42.054	136.818	0.00	0.00		C
ATOM	18049	C	ALA	B	444	27.955	41.981	136.644	0.00	0.00		C
ATOM	18050	O	ALA	B	444	28.541	40.874	136.607	0.00	0.00		O
ATOM	18051	CB	ALA	B	444	25.758	42.499	135.528	0.00	0.00		C
ATOM	18052	HN	ALA	B	444	26.226	43.907	137.641	0.00	0.00		H
ATOM	18053	HCA	ALA	B	444	26.099	41.058	137.064	0.00	0.00		H
ATOM	18054	HCN	ALA	B	444	26.185	43.417	135.127	0.00	0.00		H
ATOM	18055	HCN	ALA	B	444	25.849	41.724	134.764	0.00	0.00		H
ATOM	18056	HCN	ALA	B	444	24.697	42.660	135.734	0.00	0.00		H
ATOM	18057	N	LYS	B	445	28.653	43.137	136.614	0.00	0.00		N
ATOM	18058	CA	LYS	B	445	30.082	43.235	136.644	0.00	0.00		C
ATOM	18059	C	LYS	B	445	30.642	42.884	137.990	0.00	0.00		C
ATOM	18060	O	LYS	B	445	31.296	41.826	138.151	0.00	0.00		O
ATOM	18061	CB	LYS	B	445	30.460	44.672	136.179	0.00	0.00		C
ATOM	18062	CG	LYS	B	445	30.005	44.994	134.724	0.00	0.00		C
ATOM	18063	CD	LYS	B	445	30.287	46.465	134.319	0.00	0.00		C
ATOM	18064	CE	LYS	B	445	29.674	46.869	132.956	0.00	0.00		C
ATOM	18065	NZ	LYS	B	445	30.250	46.100	131.850	0.00	0.00		N
ATOM	18066	HN	LYS	B	445	28.129	43.947	136.602	0.00	0.00		H
ATOM	18067	HNZ	LYS	B	445	30.045	45.109	131.976	0.00	0.00		H
ATOM	18068	HNZ	LYS	B	445	29.848	46.415	130.967	0.00	0.00		H
ATOM	18069	HNZ	LYS	B	445	31.260	46.234	131.827	0.00	0.00		H
ATOM	18070	HCA	LYS	B	445	30.499	42.535	135.910	0.00	0.00		H
ATOM	18071	HCN	LYS	B	445	29.997	45.393	136.858	0.00	0.00		H
ATOM	18072	HCN	LYS	B	445	31.546	44.797	136.242	0.00	0.00		H
ATOM	18073	HCD	LYS	B	445	29.864	47.130	135.079	0.00	0.00		H
ATOM	18074	HCD	LYS	B	445	31.367	46.632	134.290	0.00	0.00		H
ATOM	18075	HCE	LYS	B	445	28.591	46.718	132.972	0.00	0.00		H
ATOM	18076	HCE	LYS	B	445	29.865	47.929	132.775	0.00	0.00		H
ATOM	18077	HCG	LYS	B	445	30.522	44.320	134.035	0.00	0.00		H
ATOM	18078	HCG	LYS	B	445	28.931	44.812	134.630	0.00	0.00		H

ATOM	18079	N	GLY	B	446	30.403	43.654	139.075	0.00	0.00	N
ATOM	18080	CA	GLY	B	446	31.077	43.636	140.345	0.00	0.00	C
ATOM	18081	C	GLY	B	446	31.445	44.994	140.816	0.00	0.00	C
ATOM	18082	O	GLY	B	446	32.362	45.118	141.666	0.00	0.00	O
ATOM	18083	HN	GLY	B	446	29.685	44.274	139.017	0.00	0.00	H
ATOM	18084	HCA	GLY	B	446	30.403	43.204	141.085	0.00	0.00	H
ATOM	18085	HCA	GLY	B	446	31.979	43.018	140.308	0.00	0.00	H
ATOM	18086	N	GLN	B	447	30.739	46.087	140.429	0.00	0.00	N
ATOM	18087	CA	GLN	B	447	31.067	47.460	140.736	0.00	0.00	C
ATOM	18088	C	GLN	B	447	30.376	47.865	141.963	0.00	0.00	C
ATOM	18089	O	GLN	B	447	29.524	48.753	141.988	0.00	0.00	O
ATOM	18090	CB	GLN	B	447	30.820	48.379	139.507	0.00	0.00	C
ATOM	18091	CG	GLN	B	447	31.678	48.029	138.258	0.00	0.00	C
ATOM	18092	CD	GLN	B	447	31.507	48.949	137.115	0.00	0.00	C
ATOM	18093	NE2	GLN	B	447	32.230	48.790	136.003	0.00	0.00	N
ATOM	18094	OE1	GLN	B	447	30.705	49.907	137.123	0.00	0.00	O
ATOM	18095	HN	GLN	B	447	29.917	45.909	139.972	0.00	0.00	H
ATOM	18096	HNE2	GLN	B	447	32.872	48.070	135.937	0.00	0.00	H
ATOM	18097	HNE2	GLN	B	447	32.105	49.406	135.267	0.00	0.00	H
ATOM	18098	HCA	GLN	B	447	32.140	47.548	140.946	0.00	0.00	H
ATOM	18099	HCN	GLN	B	447	29.760	48.365	139.244	0.00	0.00	H
ATOM	18100	HCN	GLN	B	447	31.087	49.395	139.802	0.00	0.00	H
ATOM	18101	HCG	GLN	B	447	32.734	48.043	138.538	0.00	0.00	H
ATOM	18102	HCG	GLN	B	447	31.432	47.023	137.922	0.00	0.00	H
ATOM	18103	N	ILE	B	448	30.743	47.182	143.031	0.00	0.00	N
ATOM	18104	CA	ILE	B	448	30.267	47.267	144.383	0.00	0.00	C
ATOM	18105	C	ILE	B	448	31.351	47.792	145.270	0.00	0.00	C
ATOM	18106	O	ILE	B	448	32.447	47.182	145.289	0.00	0.00	O
ATOM	18107	CB	ILE	B	448	29.807	45.836	144.857	0.00	0.00	C
ATOM	18108	CG1	ILE	B	448	28.928	45.029	143.843	0.00	0.00	C
ATOM	18109	CG2	ILE	B	448	29.126	45.892	146.252	0.00	0.00	C
ATOM	18110	CD1	ILE	B	448	27.552	45.641	143.515	0.00	0.00	C
ATOM	18111	HN	ILE	B	448	31.381	46.493	142.819	0.00	0.00	H
ATOM	18112	HCA	ILE	B	448	29.410	47.942	144.439	0.00	0.00	H
ATOM	18113	HCN	ILE	B	448	30.711	45.229	144.983	0.00	0.00	H
ATOM	18114	HCD1	ILE	B	448	26.890	45.559	144.377	0.00	0.00	H
ATOM	18115	HCD1	ILE	B	448	27.654	46.686	143.226	0.00	0.00	H
ATOM	18116	HCD1	ILE	B	448	27.094	45.102	142.689	0.00	0.00	H
ATOM	18117	HCG1	ILE	B	448	29.478	44.906	142.910	0.00	0.00	H
ATOM	18118	HCG1	ILE	B	448	28.763	44.021	144.236	0.00	0.00	H
ATOM	18119	HCG2	ILE	B	448	29.812	46.311	146.988	0.00	0.00	H
ATOM	18120	HCG2	ILE	B	448	28.229	46.514	146.224	0.00	0.00	H
ATOM	18121	HCG2	ILE	B	448	28.850	44.890	146.580	0.00	0.00	H
ATOM	18122	N	GLU	B	449	31.164	48.864	146.085	0.00	0.00	N
ATOM	18123	CA	GLU	B	449	32.073	49.267	147.154	0.00	0.00	C
ATOM	18124	C	GLU	B	449	31.369	49.529	148.448	0.00	0.00	C
ATOM	18125	O	GLU	B	449	30.135	49.363	148.483	0.00	0.00	O
ATOM	18126	CB	GLU	B	449	33.007	50.421	146.674	0.00	0.00	C
ATOM	18127	CG	GLU	B	449	32.329	51.812	146.556	0.00	0.00	C
ATOM	18128	CD	GLU	B	449	33.201	52.878	146.045	0.00	0.00	C
ATOM	18129	OE1	GLU	B	449	34.278	53.165	146.606	0.00	0.00	O
ATOM	18130	OE2	GLU	B	449	32.840	53.584	145.079	0.00	0.00	O
ATOM	18131	HN	GLU	B	449	30.342	49.355	145.954	0.00	0.00	H
ATOM	18132	HCA	GLU	B	449	32.735	48.428	147.392	0.00	0.00	H
ATOM	18133	HCN	GLU	B	449	33.847	50.505	147.371	0.00	0.00	H
ATOM	18134	HCN	GLU	B	449	33.427	50.147	145.701	0.00	0.00	H
ATOM	18135	HCG	GLU	B	449	31.460	51.726	145.902	0.00	0.00	H
ATOM	18136	HCG	GLU	B	449	32.003	52.135	147.546	0.00	0.00	H
ATOM	18137	N	GLU	B	450	32.008	49.919	149.582	0.00	0.00	N
ATOM	18138	CA	GLU	B	450	31.416	50.157	150.889	0.00	0.00	C
ATOM	18139	C	GLU	B	450	31.271	51.617	151.153	0.00	0.00	C
ATOM	18140	O	GLU	B	450	32.254	52.361	150.919	0.00	0.00	O
ATOM	18141	CB	GLU	B	450	32.303	49.475	151.975	0.00	0.00	C
ATOM	18142	CG	GLU	B	450	31.805	49.598	153.454	0.00	0.00	C
ATOM	18143	CD	GLU	B	450	30.620	48.791	153.805	0.00	0.00	C
ATOM	18144	OE1	GLU	B	450	30.651	47.551	153.649	0.00	0.00	O
ATOM	18145	OE2	GLU	B	450	29.600	49.292	154.333	0.00	0.00	O
ATOM	18146	HN	GLU	B	450	32.963	50.069	149.506	0.00	0.00	H
ATOM	18147	HCA	GLU	B	450	30.432	49.696	150.959	0.00	0.00	H
ATOM	18148	HCN	GLU	B	450	32.404	48.413	151.730	0.00	0.00	H
ATOM	18149	HCN	GLU	B	450	33.308	49.908	151.923	0.00	0.00	H
ATOM	18150	HCG	GLU	B	450	32.610	49.260	154.110	0.00	0.00	H
ATOM	18151	HCG	GLU	B	450	31.615	50.644	153.702	0.00	0.00	H
ATOM	18152	N	ALA	B	451	30.135	52.135	151.689	0.00	0.00	N
ATOM	18153	CA	ALA	B	451	29.925	53.517	152.031	0.00	0.00	C
ATOM	18154	C	ALA	B	451	29.959	53.731	153.501	0.00	0.00	C
ATOM	18155	O	ALA	B	451	29.112	53.170	154.236	0.00	0.00	O
ATOM	18156	CB	ALA	B	451	28.575	53.995	151.446	0.00	0.00	C
ATOM	18157	HN	ALA	B	451	29.406	51.537	151.878	0.00	0.00	H
ATOM	18158	HCA	ALA	B	451	30.695	54.146	151.575	0.00	0.00	H

ATOM	18159	HC	B	ALA	B	451	27.767	53.313	151.719	0.00	0.00	
ATOM	18160	HC	B	ALA	B	451	28.325	54.993	151.808	0.00	0.00	
ATOM	18161	HC	B	ALA	B	451	28.649	54.047	150.364	0.00	0.00	
ATOM	18162	N	B	GLY	B	452	30.866	54.589	154.025	0.00	0.00	
ATOM	18163	CA	B	GLY	B	452	30.872	55.075	155.374	0.00	0.00	
ATOM	18164	C	B	GLY	B	452	30.099	56.328	155.535	0.00	0.00	
ATOM	18165	O	B	GLY	B	452	29.637	56.941	154.548	0.00	0.00	
ATOM	18166	HN	B	GLY	B	452	31.520	54.960	153.415	0.00	0.00	
ATOM	18167	HCA	B	GLY	B	452	30.476	54.321	156.058	0.00	0.00	
ATOM	18168	HCA	B	GLY	B	452	31.906	55.270	155.663	0.00	0.00	
ATOM	18169	N	B	TRP	B	453	29.910	56.830	156.771	0.00	0.00	
ATOM	18170	CA	B	TRP	B	453	29.108	57.970	157.143	0.00	0.00	
ATOM	18171	C	B	TRP	B	453	29.325	59.184	156.301	0.00	0.00	
ATOM	18172	O	B	TRP	B	453	28.357	59.811	155.795	0.00	0.00	
ATOM	18173	CB	B	TRP	B	453	29.444	58.211	158.642	0.00	0.00	
ATOM	18174	CG	B	TRP	B	453	28.626	59.256	159.287	0.00	0.00	
ATOM	18175	CD1	B	TRP	B	453	28.923	60.618	159.406	0.00	0.00	
ATOM	18176	CD2	B	TRP	B	453	27.385	59.083	159.890	0.00	0.00	
ATOM	18177	CE2	B	TRP	B	453	26.957	60.339	160.311	0.00	0.00	
ATOM	18178	CE3	B	TRP	B	453	26.587	57.940	160.079	0.00	0.00	
ATOM	18179	NE1	B	TRP	B	453	27.907	61.239	160.032	0.00	0.00	
ATOM	18180	CZ2	B	TRP	B	453	25.695	60.517	160.892	0.00	0.00	
ATOM	18181	CZ3	B	TRP	B	453	25.312	58.110	160.654	0.00	0.00	
ATOM	18182	CH2	B	TRP	B	453	24.865	59.390	161.048	0.00	0.00	
ATOM	18183	HN	B	TRP	B	453	30.318	56.325	157.491	0.00	0.00	
ATOM	18184	HNE1	B	TRP	B	453	27.858	62.180	160.269	0.00	0.00	
ATOM	18185	HCA	B	TRP	B	453	28.055	57.681	157.066	0.00	0.00	
ATOM	18186	HC	B	TRP	B	453	29.299	57.278	159.191	0.00	0.00	
ATOM	18187	HC	B	TRP	B	453	30.494	58.465	158.748	0.00	0.00	
ATOM	18188	HCD1	B	TRP	B	453	29.774	61.074	159.072	0.00	0.00	
ATOM	18189	HCE3	B	TRP	B	453	26.900	57.015	159.780	0.00	0.00	
ATOM	18190	HCH2	B	TRP	B	453	23.925	59.511	161.422	0.00	0.00	
ATOM	18191	HCZ2	B	TRP	B	453	25.371	61.444	161.161	0.00	0.00	
ATOM	18192	HCZ3	B	TRP	B	453	24.699	57.307	160.750	0.00	0.00	
ATOM	18193	N	B	SER	B	454	30.600	59.579	156.090	0.00	0.00	
ATOM	18194	CA	B	SER	B	454	31.041	60.682	155.291	0.00	0.00	
ATOM	18195	C	B	SER	B	454	31.044	60.434	153.822	0.00	0.00	
ATOM	18196	O	B	SER	B	454	31.151	61.441	153.080	0.00	0.00	
ATOM	18197	CB	B	SER	B	454	32.446	61.110	155.808	0.00	0.00	
ATOM	18198	OG	B	SER	B	454	33.340	60.005	155.994	0.00	0.00	
ATOM	18199	HN	B	SER	B	454	31.290	59.048	156.513	0.00	0.00	
ATOM	18200	HCA	B	SER	B	454	30.363	61.524	155.469	0.00	0.00	
ATOM	18201	HC	B	SER	B	454	32.906	61.832	155.129	0.00	0.00	
ATOM	18202	HC	B	SER	B	454	32.328	61.604	156.776	0.00	0.00	
ATOM	18203	HOG	B	SER	B	454	33.483	59.634	155.092	0.00	0.00	
ATOM	18204	N	B	TYR	B	455	30.841	59.219	153.245	0.00	0.00	
ATOM	18205	CA	B	TYR	B	455	30.820	58.966	151.817	0.00	0.00	
ATOM	18206	C	B	TYR	B	455	29.708	59.722	151.180	0.00	0.00	
ATOM	18207	O	B	TYR	B	455	29.807	60.112	149.994	0.00	0.00	
ATOM	18208	CB	B	TYR	B	455	30.697	57.427	151.582	0.00	0.00	
ATOM	18209	CG	B	TYR	B	455	30.794	56.939	150.172	0.00	0.00	
ATOM	18210	CD1	B	TYR	B	455	29.704	57.079	149.279	0.00	0.00	
ATOM	18211	CD2	B	TYR	B	455	31.949	56.263	149.706	0.00	0.00	
ATOM	18212	CE1	B	TYR	B	455	29.766	56.568	147.969	0.00	0.00	
ATOM	18213	CE2	B	TYR	B	455	32.007	55.736	148.399	0.00	0.00	
ATOM	18214	CZ	B	TYR	B	455	30.914	55.887	147.527	0.00	0.00	
ATOM	18215	OH	B	TYR	B	455	30.926	55.374	146.273	0.00	0.00	
ATOM	18216	HN	B	TYR	B	455	30.572	58.482	153.795	0.00	0.00	
ATOM	18217	HCA	B	TYR	B	455	31.769	59.307	151.390	0.00	0.00	
ATOM	18218	HC	B	TYR	B	455	31.475	56.943	152.180	0.00	0.00	
ATOM	18219	HC	B	TYR	B	455	29.743	57.080	151.985	0.00	0.00	
ATOM	18220	HCD1	B	TYR	B	455	28.846	57.546	149.580	0.00	0.00	
ATOM	18221	HCD2	B	TYR	B	455	32.757	56.139	150.321	0.00	0.00	
ATOM	18222	HCE1	B	TYR	B	455	28.968	56.681	147.341	0.00	0.00	
ATOM	18223	HCE2	B	TYR	B	455	32.845	55.242	148.085	0.00	0.00	
ATOM	18224	HOH	B	TYR	B	455	31.642	54.812	145.937	0.00	0.00	
ATOM	18225	N	B	VAL	B	456	28.622	60.011	151.933	0.00	0.00	
ATOM	18226	CA	B	VAL	B	456	27.447	60.717	151.535	0.00	0.00	
ATOM	18227	C	B	VAL	B	456	27.423	62.120	152.056	0.00	0.00	
ATOM	18228	O	B	VAL	B	456	26.380	62.806	151.900	0.00	0.00	
ATOM	18229	CB	B	VAL	B	456	26.204	59.844	151.920	0.00	0.00	
ATOM	18230	CG1	B	VAL	B	456	26.136	58.542	151.071	0.00	0.00	
ATOM	18231	CG2	B	VAL	B	456	26.136	59.493	153.434	0.00	0.00	
ATOM	18232	HN	B	VAL	B	456	28.646	59.707	152.850	0.00	0.00	
ATOM	18233	HCA	B	VAL	B	456	27.435	60.810	150.454	0.00	0.00	
ATOM	18234	HC	B	VAL	B	456	25.308	60.419	151.673	0.00	0.00	
ATOM	18235	HCG1	B	VAL	B	456	26.146	58.777	150.005	0.00	0.00	
ATOM	18236	HCG1	B	VAL	B	456	26.982	57.889	151.291	0.00	0.00	
ATOM	18237	HCG1	B	VAL	B	456	25.220	57.993	151.283	0.00	0.00	
ATOM	18238	HCG2	B	VAL	B	456	26.178	60.400	154.036	0.00	0.00	

ATOM	18239	HCG2	VAL	B	456	25.206	58.972	153.663	0.00	0.00	H
ATOM	18240	HCG2	VAL	B	456	26.958	58.837	153.721	0.00	0.00	H
ATOM	18241	N	GLY	B	457	28.502	62.713	152.637	0.00	0.00	N
ATOM	18242	CA	GLY	B	457	28.509	64.055	153.159	0.00	0.00	C
ATOM	18243	C	GLY	B	457	28.135	65.106	152.180	0.00	0.00	C
ATOM	18244	O	GLY	B	457	28.920	65.376	151.242	0.00	0.00	O
ATOM	18245	HN	GLY	B	457	29.324	62.217	152.721	0.00	0.00	H
ATOM	18246	HCA	GLY	B	457	27.835	64.091	154.018	0.00	0.00	H
ATOM	18247	HCA	GLY	B	457	29.511	64.277	153.530	0.00	0.00	H
ATOM	18248	N	GLY	B	458	26.939	65.733	152.292	0.00	0.00	N
ATOM	18249	CA	GLY	B	458	26.420	66.754	151.422	0.00	0.00	C
ATOM	18250	C	GLY	B	458	25.511	66.271	150.357	0.00	0.00	C
ATOM	18251	O	GLY	B	458	24.892	67.118	149.663	0.00	0.00	O
ATOM	18252	HN	GLY	B	458	26.370	65.444	153.021	0.00	0.00	H
ATOM	18253	HCA	GLY	B	458	25.866	67.458	152.046	0.00	0.00	H
ATOM	18254	HCA	GLY	B	458	27.230	67.311	150.945	0.00	0.00	H
ATOM	18255	N	TRP	B	459	25.327	64.949	150.122	0.00	0.00	N
ATOM	18256	CA	TRP	B	459	24.600	64.403	149.001	0.00	0.00	C
ATOM	18257	C	TRP	B	459	23.203	64.897	148.870	0.00	0.00	C
ATOM	18258	O	TRP	B	459	22.703	65.020	147.725	0.00	0.00	O
ATOM	18259	CB	TRP	B	459	24.665	62.850	149.100	0.00	0.00	C
ATOM	18260	CG	TRP	B	459	25.909	62.267	148.540	0.00	0.00	C
ATOM	18261	CD1	TRP	B	459	27.214	62.758	148.677	0.00	0.00	C
ATOM	18262	CD2	TRP	B	459	26.029	61.104	147.779	0.00	0.00	C
ATOM	18263	CE2	TRP	B	459	27.385	60.925	147.503	0.00	0.00	C
ATOM	18264	CE3	TRP	B	459	25.075	60.185	147.303	0.00	0.00	C
ATOM	18265	NE1	TRP	B	459	28.072	61.941	148.041	0.00	0.00	N
ATOM	18266	CZ2	TRP	B	459	27.845	59.836	146.749	0.00	0.00	C
ATOM	18267	CZ3	TRP	B	459	25.517	59.105	146.512	0.00	0.00	C
ATOM	18268	CH2	TRP	B	459	26.893	58.929	146.241	0.00	0.00	C
ATOM	18269	HN	TRP	B	459	25.734	64.313	150.721	0.00	0.00	H
ATOM	18270	HNE1	TRP	B	459	29.039	62.044	148.012	0.00	0.00	H
ATOM	18271	HCA	TRP	B	459	25.123	64.720	148.091	0.00	0.00	H
ATOM	18272	HCB	TRP	B	459	24.572	62.536	150.139	0.00	0.00	H
ATOM	18273	HCB	TRP	B	459	23.813	62.411	148.590	0.00	0.00	H
ATOM	18274	HCD1	TRP	B	459	27.489	63.600	149.188	0.00	0.00	H
ATOM	18275	HCE3	TRP	B	459	24.084	60.292	147.516	0.00	0.00	H
ATOM	18276	HCH2	TRP	B	459	27.202	58.144	145.670	0.00	0.00	H
ATOM	18277	HCZ2	TRP	B	459	28.843	59.712	146.564	0.00	0.00	H
ATOM	18278	HCZ3	TRP	B	459	24.833	58.449	146.132	0.00	0.00	H
ATOM	18279	N	THR	B	460	22.506	65.284	149.964	0.00	0.00	N
ATOM	18280	CA	THR	B	460	21.180	65.841	149.945	0.00	0.00	C
ATOM	18281	C	THR	B	460	21.055	67.097	149.151	0.00	0.00	C
ATOM	18282	O	THR	B	460	19.903	67.496	148.858	0.00	0.00	O
ATOM	18283	CB	THR	B	460	20.635	65.981	151.400	0.00	0.00	C
ATOM	18284	CG2	THR	B	460	21.209	67.171	152.205	0.00	0.00	C
ATOM	18285	OG1	THR	B	460	19.209	66.008	151.394	0.00	0.00	O
ATOM	18286	HN	THR	B	460	22.952	65.194	150.819	0.00	0.00	H
ATOM	18287	HCA	THR	B	460	20.555	65.097	149.444	0.00	0.00	H
ATOM	18288	HCB	THR	B	460	20.893	65.067	151.939	0.00	0.00	H
ATOM	18289	HCG2	THR	B	460	20.906	68.118	151.756	0.00	0.00	H
ATOM	18290	HCG2	THR	B	460	20.837	67.141	153.230	0.00	0.00	H
ATOM	18291	HCG2	THR	B	460	22.299	67.129	152.230	0.00	0.00	H
ATOM	18292	HOG1	THR	B	460	18.914	66.854	151.761	0.00	0.00	H
ATOM	18293	N	GLY	B	461	22.144	67.786	148.716	0.00	0.00	N
ATOM	18294	CA	GLY	B	461	22.100	68.907	147.817	0.00	0.00	C
ATOM	18295	C	GLY	B	461	22.359	68.592	146.392	0.00	0.00	C
ATOM	18296	O	GLY	B	461	22.323	69.553	145.588	0.00	0.00	O
ATOM	18297	HN	GLY	B	461	23.015	67.501	149.014	0.00	0.00	H
ATOM	18298	HCA	GLY	B	461	21.137	69.419	147.872	0.00	0.00	H
ATOM	18299	HCA	GLY	B	461	22.858	69.619	148.147	0.00	0.00	H
ATOM	18300	N	GLN	B	462	22.631	67.342	145.939	0.00	0.00	N
ATOM	18301	CA	GLN	B	462	23.005	66.999	144.582	0.00	0.00	C
ATOM	18302	C	GLN	B	462	21.972	66.195	143.931	0.00	0.00	C
ATOM	18303	O	GLN	B	462	21.371	65.344	144.575	0.00	0.00	O
ATOM	18304	CB	GLN	B	462	24.393	66.295	144.612	0.00	0.00	C
ATOM	18305	CG	GLN	B	462	25.483	67.170	145.304	0.00	0.00	C
ATOM	18306	CD	GLN	B	462	26.851	66.669	145.117	0.00	0.00	C
ATOM	18307	NE2	GLN	B	462	27.479	66.766	143.943	0.00	0.00	N
ATOM	18308	OE1	GLN	B	462	27.478	66.127	146.051	0.00	0.00	O
ATOM	18309	HN	GLN	B	462	22.612	66.615	146.567	0.00	0.00	H
ATOM	18310	HNE2	GLN	B	462	27.033	67.171	143.185	0.00	0.00	H
ATOM	18311	HNE2	GLN	B	462	28.386	66.439	143.859	0.00	0.00	H
ATOM	18312	HCA	GLN	B	462	23.128	67.902	143.975	0.00	0.00	H
ATOM	18313	HCB	GLN	B	462	24.309	65.341	145.142	0.00	0.00	H
ATOM	18314	HCB	GLN	B	462	24.696	66.081	143.582	0.00	0.00	H
ATOM	18315	HCG	GLN	B	462	25.448	68.192	144.920	0.00	0.00	H
ATOM	18316	HCG	GLN	B	462	25.273	67.216	146.376	0.00	0.00	H
ATOM	18317	N	GLY	B	463	21.682	66.327	142.647	0.00	0.00	N
ATOM	18318	CA	GLY	B	463	20.501	65.831	142.000	0.00	0.00	C

ATOM	18319	C	GLY	B	463	20.744	64.609	141.223	0.00	0.00	C
ATOM	18320	O	GLY	B	463	21.907	64.198	141.005	0.00	0.00	O
ATOM	18321	HN	GLY	B	463	22.321	66.725	142.049	0.00	0.00	H
ATOM	18322	HCA	GLY	B	463	19.710	65.625	142.725	0.00	0.00	H
ATOM	18323	HCA	GLY	B	463	20.133	66.599	141.322	0.00	0.00	H
ATOM	18324	N	GLY	B	464	19.677	63.906	140.789	0.00	0.00	N
ATOM	18325	CA	GLY	B	464	19.724	62.597	140.231	0.00	0.00	C
ATOM	18326	C	GLY	B	464	20.447	61.643	141.099	0.00	0.00	C
ATOM	18327	O	GLY	B	464	20.174	61.556	142.324	0.00	0.00	O
ATOM	18328	HN	GLY	B	464	18.811	64.305	140.889	0.00	0.00	H
ATOM	18329	HCA	GLY	B	464	18.711	62.233	140.103	0.00	0.00	H
ATOM	18330	HCA	GLY	B	464	20.173	62.658	139.237	0.00	0.00	H
ATOM	18331	N	SER	B	465	21.440	60.942	140.520	0.00	0.00	N
ATOM	18332	CA	SER	B	465	22.337	60.020	141.143	0.00	0.00	C
ATOM	18333	C	SER	B	465	23.690	60.648	141.219	0.00	0.00	C
ATOM	18334	O	SER	B	465	23.855	61.890	141.199	0.00	0.00	O
ATOM	18335	CB	SER	B	465	22.240	58.695	140.314	0.00	0.00	C
ATOM	18336	OG	SER	B	465	23.051	57.599	140.773	0.00	0.00	O
ATOM	18337	HN	SER	B	465	21.588	61.120	139.580	0.00	0.00	H
ATOM	18338	HCA	SER	B	465	22.030	59.795	142.168	0.00	0.00	H
ATOM	18339	HCB	SER	B	465	21.203	58.351	140.349	0.00	0.00	H
ATOM	18340	HCB	SER	B	465	22.496	58.892	139.269	0.00	0.00	H
ATOM	18341	HOG	SER	B	465	22.749	56.834	140.228	0.00	0.00	H
ATOM	18342	N	LYS	B	466	24.727	59.808	141.321	0.00	0.00	N
ATOM	18343	CA	LYS	B	466	26.139	60.028	141.456	0.00	0.00	C
ATOM	18344	C	LYS	B	466	26.744	58.671	141.410	0.00	0.00	C
ATOM	18345	O	LYS	B	466	27.739	58.456	140.679	0.00	0.00	O
ATOM	18346	CB	LYS	B	466	26.584	60.791	142.745	0.00	0.00	C
ATOM	18347	CG	LYS	B	466	26.479	62.349	142.668	0.00	0.00	C
ATOM	18348	CD	LYS	B	466	27.773	63.126	143.047	0.00	0.00	C
ATOM	18349	CE	LYS	B	466	28.309	62.899	144.480	0.00	0.00	C
ATOM	18350	NZ	LYS	B	466	27.342	63.302	145.501	0.00	0.00	N
ATOM	18351	HN	LYS	B	466	24.407	58.914	141.239	0.00	0.00	H
ATOM	18352	HNZ	LYS	B	466	26.401	63.004	145.240	0.00	0.00	H
ATOM	18353	HNZ	LYS	B	466	27.593	62.866	146.367	0.00	0.00	H
ATOM	18354	HNZ	LYS	B	466	27.369	64.295	145.632	0.00	0.00	H
ATOM	18355	HCA	LYS	B	466	26.488	60.577	140.575	0.00	0.00	H
ATOM	18356	HCB	LYS	B	466	25.999	60.429	143.595	0.00	0.00	H
ATOM	18357	HCB	LYS	B	466	27.625	60.522	142.942	0.00	0.00	H
ATOM	18358	HCD	LYS	B	466	28.562	62.850	142.342	0.00	0.00	H
ATOM	18359	HCD	LYS	B	466	27.584	64.194	142.912	0.00	0.00	H
ATOM	18360	HCE	LYS	B	466	28.560	61.849	144.629	0.00	0.00	H
ATOM	18361	HCE	LYS	B	466	29.222	63.481	144.624	0.00	0.00	H
ATOM	18362	HCG	LYS	B	466	26.237	62.657	141.647	0.00	0.00	H
ATOM	18363	HCG	LYS	B	466	25.649	62.688	143.293	0.00	0.00	H
ATOM	18364	N	LEU	B	467	26.152	57.658	142.091	0.00	0.00	N
ATOM	18365	CA	LEU	B	467	26.433	56.265	141.937	0.00	0.00	C
ATOM	18366	C	LEU	B	467	26.387	55.838	140.512	0.00	0.00	C
ATOM	18367	O	LEU	B	467	27.404	55.305	140.012	0.00	0.00	O
ATOM	18368	CB	LEU	B	467	25.410	55.409	142.748	0.00	0.00	C
ATOM	18369	CG	LEU	B	467	25.396	55.583	144.296	0.00	0.00	C
ATOM	18370	CD1	LEU	B	467	24.317	54.655	144.923	0.00	0.00	C
ATOM	18371	CD2	LEU	B	467	26.779	55.288	144.929	0.00	0.00	C
ATOM	18372	HN	LEU	B	467	25.443	57.904	142.705	0.00	0.00	H
ATOM	18373	HCA	LEU	B	467	27.439	56.082	142.319	0.00	0.00	H
ATOM	18374	HCB	LEU	B	467	24.403	55.624	142.378	0.00	0.00	H
ATOM	18375	HCB	LEU	B	467	25.608	54.357	142.536	0.00	0.00	H
ATOM	18376	HCD1	LEU	B	467	24.540	53.605	144.722	0.00	0.00	H
ATOM	18377	HCD1	LEU	B	467	24.270	54.793	146.004	0.00	0.00	H
ATOM	18378	HCD1	LEU	B	467	23.330	54.882	144.516	0.00	0.00	H
ATOM	18379	HCD2	LEU	B	467	27.126	54.301	144.621	0.00	0.00	H
ATOM	18380	HCD2	LEU	B	467	27.520	56.023	144.622	0.00	0.00	H
ATOM	18381	HCD2	LEU	B	467	26.714	55.328	146.018	0.00	0.00	H
ATOM	18382	HCG	LEU	B	467	25.123	56.615	144.528	0.00	0.00	H
ATOM	18383	N	GLY	B	468	25.262	56.006	139.779	0.00	0.00	N
ATOM	18384	CA	GLY	B	468	25.025	55.441	138.485	0.00	0.00	C
ATOM	18385	C	GLY	B	468	23.848	54.551	138.499	0.00	0.00	C
ATOM	18386	O	GLY	B	468	23.786	53.623	139.342	0.00	0.00	O
ATOM	18387	HN	GLY	B	468	24.559	56.523	140.166	0.00	0.00	H
ATOM	18388	HCA	GLY	B	468	24.868	56.255	137.781	0.00	0.00	H
ATOM	18389	HCA	GLY	B	468	25.875	54.860	138.121	0.00	0.00	H
ATOM	18390	N	SER	B	469	22.889	54.718	137.564	0.00	0.00	N
ATOM	18391	CA	SER	B	469	21.684	53.949	137.374	0.00	0.00	C
ATOM	18392	C	SER	B	469	21.604	53.317	136.031	0.00	0.00	C
ATOM	18393	O	SER	B	469	22.602	53.399	135.286	0.00	0.00	O
ATOM	18394	CB	SER	B	469	20.486	54.892	137.677	0.00	0.00	C
ATOM	18395	OG	SER	B	469	20.695	56.208	137.173	0.00	0.00	O
ATOM	18396	HN	SER	B	469	23.024	55.431	136.921	0.00	0.00	H
ATOM	18397	HCA	SER	B	469	21.663	53.117	138.060	0.00	0.00	H
ATOM	18398	HCB	SER	B	469	19.548	54.503	137.278	0.00	0.00	H

ATOM	18399	HC	SER	B	469	20.367	54.986	138.755	0.00	0.00		H
ATOM	18400	HOG	SER	B	469	20.986	56.096	136.254	0.00	0.00		H
ATOM	18401	N	LYS	B	470	20.497	52.650	135.607	0.00	0.00		N
ATOM	18402	CA	LYS	B	470	20.250	52.168	134.267	0.00	0.00		C
ATOM	18403	C	LYS	B	470	18.868	51.617	134.130	0.00	0.00		C
ATOM	18404	O	LYS	B	470	18.406	50.871	135.029	0.00	0.00		O
ATOM	18405	CB	LYS	B	470	21.301	51.124	133.743	0.00	0.00		C
ATOM	18406	CG	LYS	B	470	21.174	50.737	132.239	0.00	0.00		C
ATOM	18407	CD	LYS	B	470	21.519	51.861	131.219	0.00	0.00		C
ATOM	18408	CE	LYS	B	470	20.763	51.780	129.871	0.00	0.00		C
ATOM	18409	NZ	LYS	B	470	21.311	50.724	129.015	0.00	0.00		N
ATOM	18410	HN	LYS	B	470	19.774	52.551	136.241	0.00	0.00		H
ATOM	18411	HNZ	LYS	B	470	21.364	49.848	129.535	0.00	0.00		H
ATOM	18412	HNZ	LYS	B	470	20.713	50.602	128.196	0.00	0.00		H
ATOM	18413	HNZ	LYS	B	470	22.249	50.986	128.709	0.00	0.00		H
ATOM	18414	HCA	LYS	B	470	20.301	53.056	133.639	0.00	0.00		H
ATOM	18415	HC	LYS	B	470	22.318	51.486	133.885	0.00	0.00		H
ATOM	18416	HC	LYS	B	470	21.210	50.215	134.346	0.00	0.00		H
ATOM	18417	HCD	LYS	B	470	21.311	52.839	131.647	0.00	0.00		H
ATOM	18418	HCD	LYS	B	470	22.590	51.815	131.020	0.00	0.00		H
ATOM	18419	HCE	LYS	B	470	19.698	51.601	130.040	0.00	0.00		H
ATOM	18420	HCE	LYS	B	470	20.862	52.730	129.339	0.00	0.00		H
ATOM	18421	HCG	LYS	B	470	21.854	49.903	132.050	0.00	0.00		H
ATOM	18422	HCG	LYS	B	470	20.171	50.363	132.062	0.00	0.00		H
ATOM	18423	N	ARG	B	471	18.162	51.849	132.990	0.00	0.00		N
ATOM	18424	CA	ARG	B	471	16.951	51.187	132.564	0.00	0.00		C
ATOM	18425	C	ARG	B	471	17.280	49.878	131.916	0.00	0.00		C
ATOM	18426	O	ARG	B	471	16.941	49.626	130.735	0.00	0.00		O
ATOM	18427	CB	ARG	B	471	16.112	52.144	131.648	0.00	0.00		C
ATOM	18428	CG	ARG	B	471	15.351	53.258	132.422	0.00	0.00		C
ATOM	18429	CD	ARG	B	471	14.424	54.166	131.588	0.00	0.00		C
ATOM	18430	NE	ARG	B	471	13.255	53.453	131.177	0.00	0.00		N
ATOM	18431	CZ	ARG	B	471	12.737	53.375	129.953	0.00	0.00		C
ATOM	18432	NH1	ARG	B	471	13.159	54.081	128.917	0.00	0.00		N
ATOM	18433	NH2	ARG	B	471	11.721	52.550	129.770	0.00	0.00		N
ATOM	18434	HN	ARG	B	471	18.560	52.471	132.363	0.00	0.00		H
ATOM	18435	HNE	ARG	B	471	12.757	52.991	131.848	0.00	0.00		H
ATOM	18436	HNH1	ARG	B	471	12.729	53.979	128.061	0.00	0.00		H
ATOM	18437	HNH1	ARG	B	471	13.887	54.703	129.025	0.00	0.00		H
ATOM	18438	HNH2	ARG	B	471	11.297	52.497	128.907	0.00	0.00		H
ATOM	18439	HNH2	ARG	B	471	11.420	51.997	130.488	0.00	0.00		H
ATOM	18440	HCA	ARG	B	471	16.338	50.937	133.437	0.00	0.00		H
ATOM	18441	HC	ARG	B	471	16.765	52.603	130.898	0.00	0.00		H
ATOM	18442	HC	ARG	B	471	15.361	51.567	131.103	0.00	0.00		H
ATOM	18443	HCD	ARG	B	471	14.083	54.988	132.226	0.00	0.00		H
ATOM	18444	HCD	ARG	B	471	14.989	54.584	130.748	0.00	0.00		H
ATOM	18445	HCG	ARG	B	471	14.748	52.798	133.203	0.00	0.00		H
ATOM	18446	HCG	ARG	B	471	16.098	53.892	132.890	0.00	0.00		H
ATOM	18447	N	THR	B	472	17.941	48.938	132.632	0.00	0.00		N
ATOM	18448	CA	THR	B	472	18.136	47.551	132.257	0.00	0.00		C
ATOM	18449	C	THR	B	472	17.734	46.643	133.361	0.00	0.00		C
ATOM	18450	O	THR	B	472	17.598	47.066	134.533	0.00	0.00		O
ATOM	18451	CB	THR	B	472	19.561	47.207	131.709	0.00	0.00		C
ATOM	18452	CG2	THR	B	472	19.795	47.767	130.288	0.00	0.00		C
ATOM	18453	OG1	THR	B	472	20.575	47.684	132.585	0.00	0.00		O
ATOM	18454	HN	THR	B	472	18.246	49.247	133.495	0.00	0.00		H
ATOM	18455	HCA	THR	B	472	17.433	47.317	131.450	0.00	0.00		H
ATOM	18456	HC	THR	B	472	19.681	46.121	131.643	0.00	0.00		H
ATOM	18457	HCG2	THR	B	472	19.625	48.840	130.269	0.00	0.00		H
ATOM	18458	HCG2	THR	B	472	20.815	47.562	129.960	0.00	0.00		H
ATOM	18459	HCG2	THR	B	472	19.109	47.298	129.580	0.00	0.00		H
ATOM	18460	HOG1	THR	B	472	21.421	47.533	132.124	0.00	0.00		H
ATOM	18461	N	LEU	B	473	17.415	45.365	133.047	0.00	0.00		N
ATOM	18462	CA	LEU	B	473	16.674	44.442	133.857	0.00	0.00		C
ATOM	18463	C	LEU	B	473	17.478	43.211	134.164	0.00	0.00		C
ATOM	18464	O	LEU	B	473	18.172	42.735	133.230	0.00	0.00		O
ATOM	18465	CB	LEU	B	473	15.358	44.127	133.087	0.00	0.00		C
ATOM	18466	CG	LEU	B	473	14.456	45.341	132.689	0.00	0.00		C
ATOM	18467	CD1	LEU	B	473	13.287	44.872	131.780	0.00	0.00		C
ATOM	18468	CD2	LEU	B	473	13.895	46.085	133.930	0.00	0.00		C
ATOM	18469	HN	LEU	B	473	17.638	45.067	132.152	0.00	0.00		H
ATOM	18470	HCA	LEU	B	473	16.393	44.917	134.796	0.00	0.00		H
ATOM	18471	HC	LEU	B	473	15.609	43.555	132.187	0.00	0.00		H
ATOM	18472	HC	LEU	B	473	14.751	43.490	133.721	0.00	0.00		H
ATOM	18473	HCD1	LEU	B	473	12.664	44.140	132.299	0.00	0.00		H
ATOM	18474	HCD1	LEU	B	473	12.664	45.719	131.487	0.00	0.00		H
ATOM	18475	HCD1	LEU	B	473	13.676	44.411	130.870	0.00	0.00		H
ATOM	18476	HCD2	LEU	B	473	14.700	46.562	134.491	0.00	0.00		H
ATOM	18477	HCD2	LEU	B	473	13.201	46.866	133.622	0.00	0.00		H
ATOM	18478	HCD2	LEU	B	473	13.370	45.394	134.592	0.00	0.00		H



ATOM	18479	HCG	LEU	B	473	15.046	46.053	132.104	0.00	0.00	H
ATOM	18480	N	PRO	B	474	17.536	42.600	135.392	0.00	0.00	N
ATOM	18481	CA	PRO	B	474	18.530	41.614	135.748	0.00	0.00	C
ATOM	18482	C	PRO	B	474	18.424	40.282	135.153	0.00	0.00	C
ATOM	18483	O	PRO	B	474	19.404	39.562	135.279	0.00	0.00	O
ATOM	18484	CB	PRO	B	474	18.448	41.545	137.296	0.00	0.00	C
ATOM	18485	CG	PRO	B	474	16.987	41.902	137.589	0.00	0.00	C
ATOM	18486	CD	PRO	B	474	16.669	42.923	136.487	0.00	0.00	C
ATOM	18487	HCA	PRO	B	474	19.514	42.018	135.477	0.00	0.00	H
ATOM	18488	HCB	PRO	B	474	18.711	40.568	137.714	0.00	0.00	H
ATOM	18489	HCB	PRO	B	474	19.108	42.296	137.739	0.00	0.00	H
ATOM	18490	HCD	PRO	B	474	15.619	42.855	136.197	0.00	0.00	H
ATOM	18491	HCD	PRO	B	474	16.882	43.930	136.855	0.00	0.00	H
ATOM	18492	HCG	PRO	B	474	16.350	41.018	137.484	0.00	0.00	H
ATOM	18493	HCG	PRO	B	474	16.860	42.326	138.588	0.00	0.00	H
ATOM	18494	N	LYS	B	475	17.356	39.800	134.538	0.00	0.00	N
ATOM	18495	CA	LYS	B	475	17.185	38.451	134.045	0.00	0.00	C
ATOM	18496	C	LYS	B	475	18.340	37.910	133.283	0.00	0.00	C
ATOM	18497	O	LYS	B	475	18.976	36.917	133.723	0.00	0.00	O
ATOM	18498	CB	LYS	B	475	15.845	38.393	133.257	0.00	0.00	C
ATOM	18499	CG	LYS	B	475	15.498	37.038	132.579	0.00	0.00	C
ATOM	18500	CD	LYS	B	475	14.022	36.953	132.098	0.00	0.00	C
ATOM	18501	CE	LYS	B	475	13.649	37.974	130.995	0.00	0.00	C
ATOM	18502	NZ	LYS	B	475	12.249	37.814	130.594	0.00	0.00	N
ATOM	18503	HN	LYS	B	475	16.575	40.356	134.476	0.00	0.00	H
ATOM	18504	HNZ	LYS	B	475	12.095	36.869	130.245	0.00	0.00	H
ATOM	18505	HNZ	LYS	B	475	11.644	37.983	131.396	0.00	0.00	H
ATOM	18506	HNZ	LYS	B	475	12.026	38.486	129.860	0.00	0.00	H
ATOM	18507	HCA	LYS	B	475	17.064	37.827	134.922	0.00	0.00	H
ATOM	18508	HCB	LYS	B	475	15.044	38.618	133.966	0.00	0.00	H
ATOM	18509	HCB	LYS	B	475	15.853	39.179	132.498	0.00	0.00	H
ATOM	18510	HCD	LYS	B	475	13.847	35.945	131.711	0.00	0.00	H
ATOM	18511	HCD	LYS	B	475	13.358	37.095	132.956	0.00	0.00	H
ATOM	18512	HCE	LYS	B	475	13.777	38.996	131.355	0.00	0.00	H
ATOM	18513	HCE	LYS	B	475	14.287	37.829	130.120	0.00	0.00	H
ATOM	18514	HCG	LYS	B	475	16.165	36.872	131.728	0.00	0.00	H
ATOM	18515	HCG	LYS	B	475	15.670	36.230	133.294	0.00	0.00	H
ATOM	18516	N	LYS	B	476	18.744	38.543	132.161	0.00	0.00	N
ATOM	18517	CA	LYS	B	476	19.871	38.172	131.354	0.00	0.00	C
ATOM	18518	C	LYS	B	476	21.182	38.164	132.069	0.00	0.00	C
ATOM	18519	O	LYS	B	476	22.183	37.716	131.461	0.00	0.00	O
ATOM	18520	CB	LYS	B	476	19.880	39.067	130.078	0.00	0.00	C
ATOM	18521	CG	LYS	B	476	20.122	40.582	130.338	0.00	0.00	C
ATOM	18522	CD	LYS	B	476	20.054	41.416	129.030	0.00	0.00	C
ATOM	18523	CE	LYS	B	476	20.281	42.927	129.271	0.00	0.00	C
ATOM	18524	NZ	LYS	B	476	20.210	43.663	128.005	0.00	0.00	N
ATOM	18525	HN	LYS	B	476	18.229	39.320	131.893	0.00	0.00	H
ATOM	18526	HNZ	LYS	B	476	20.920	43.313	127.362	0.00	0.00	H
ATOM	18527	HNZ	LYS	B	476	19.288	43.538	127.584	0.00	0.00	H
ATOM	18528	HNZ	LYS	B	476	20.371	44.656	128.172	0.00	0.00	H
ATOM	18529	HCA	LYS	B	476	19.696	37.143	131.021	0.00	0.00	H
ATOM	18530	HCB	LYS	B	476	20.652	38.699	129.395	0.00	0.00	H
ATOM	18531	HCB	LYS	B	476	18.920	38.945	129.567	0.00	0.00	H
ATOM	18532	HCD	LYS	B	476	20.813	41.051	128.332	0.00	0.00	H
ATOM	18533	HCD	LYS	B	476	19.073	41.277	128.566	0.00	0.00	H
ATOM	18534	HCE	LYS	B	476	19.518	43.318	129.948	0.00	0.00	H
ATOM	18535	HCE	LYS	B	476	21.264	43.092	129.717	0.00	0.00	H
ATOM	18536	HCG	LYS	B	476	19.369	40.959	131.037	0.00	0.00	H
ATOM	18537	HCG	LYS	B	476	21.106	40.716	130.797	0.00	0.00	H
ATOM	18538	N	SER	B	477	21.302	38.585	133.353	0.00	0.00	N
ATOM	18539	CA	SER	B	477	22.481	38.581	134.164	0.00	0.00	C
ATOM	18540	C	SER	B	477	22.276	37.809	135.424	0.00	0.00	C
ATOM	18541	O	SER	B	477	23.193	37.871	136.280	0.00	0.00	O
ATOM	18542	CB	SER	B	477	22.850	40.064	134.450	0.00	0.00	C
ATOM	18543	OG	SER	B	477	23.090	40.776	133.236	0.00	0.00	O
ATOM	18544	HN	SER	B	477	20.536	38.919	133.818	0.00	0.00	H
ATOM	18545	HCA	SER	B	477	23.325	38.126	133.640	0.00	0.00	H
ATOM	18546	HCB	SER	B	477	22.044	40.558	134.999	0.00	0.00	H
ATOM	18547	HCB	SER	B	477	23.760	40.114	135.053	0.00	0.00	H
ATOM	18548	HOG	SER	B	477	23.279	41.704	133.503	0.00	0.00	H
ATOM	18549	N	PHE	B	478	21.183	37.032	135.689	0.00	0.00	N
ATOM	18550	CA	PHE	B	478	20.969	36.317	136.932	0.00	0.00	C
ATOM	18551	C	PHE	B	478	22.162	35.556	137.407	0.00	0.00	C
ATOM	18552	O	PHE	B	478	22.579	35.726	138.578	0.00	0.00	O
ATOM	18553	CB	PHE	B	478	19.746	35.349	136.905	0.00	0.00	C
ATOM	18554	CG	PHE	B	478	18.360	35.904	136.886	0.00	0.00	C
ATOM	18555	CD1	PHE	B	478	17.967	37.021	137.666	0.00	0.00	C
ATOM	18556	CD2	PHE	B	478	17.358	35.222	136.151	0.00	0.00	C
ATOM	18557	CE1	PHE	B	478	16.627	37.453	137.693	0.00	0.00	C
ATOM	18558	CE2	PHE	B	478	16.014	35.634	136.196	0.00	0.00	C

ATOM	18559	CZ	PHE	B	478	15.654	36.759	136.954	0.00	0.00	C
ATOM	18560	HN	PHE	B	478	20.481	36.999	135.030	0.00	0.00	H
ATOM	18561	HCA	PHE	B	478	20.767	37.069	137.685	0.00	0.00	H
ATOM	18562	HCN	PHE	B	478	19.891	34.660	136.067	0.00	0.00	H
ATOM	18563	HCN	PHE	B	478	19.773	34.748	137.819	0.00	0.00	H
ATOM	18564	HCD1	PHE	B	478	18.643	37.532	138.234	0.00	0.00	H
ATOM	18565	HCD2	PHE	B	478	17.595	34.406	135.582	0.00	0.00	H
ATOM	18566	HCE1	PHE	B	478	16.361	38.270	138.248	0.00	0.00	H
ATOM	18567	HCE2	PHE	B	478	15.302	35.123	135.671	0.00	0.00	H
ATOM	18568	HCZ	PHE	B	478	14.686	37.075	136.952	0.00	0.00	H
ATOM	18569	N	GLU	B	479	22.817	34.721	136.572	0.00	0.00	N
ATOM	18570	CA	GLU	B	479	23.976	33.932	136.895	0.00	0.00	C
ATOM	18571	C	GLU	B	479	25.153	34.730	137.364	0.00	0.00	C
ATOM	18572	O	GLU	B	479	26.029	34.170	138.064	0.00	0.00	O
ATOM	18573	CB	GLU	B	479	24.292	33.063	135.639	0.00	0.00	C
ATOM	18574	CG	GLU	B	479	25.380	31.964	135.821	0.00	0.00	C
ATOM	18575	CD	GLU	B	479	25.025	30.918	136.795	0.00	0.00	C
ATOM	18576	OE1	GLU	B	479	24.031	30.183	136.613	0.00	0.00	O
ATOM	18577	OE2	GLU	B	479	25.709	30.719	137.820	0.00	0.00	O
ATOM	18578	HN	GLU	B	479	22.464	34.653	135.671	0.00	0.00	H
ATOM	18579	HCA	GLU	B	479	23.684	33.256	137.705	0.00	0.00	H
ATOM	18580	HCN	GLU	B	479	23.372	32.566	135.311	0.00	0.00	H
ATOM	18581	HCN	GLU	B	479	24.599	33.724	134.825	0.00	0.00	H
ATOM	18582	HCG	GLU	B	479	25.543	31.471	134.860	0.00	0.00	H
ATOM	18583	HCG	GLU	B	479	26.327	32.426	136.107	0.00	0.00	H
ATOM	18584	N	GLN	B	480	25.262	36.060	137.126	0.00	0.00	N
ATOM	18585	CA	GLN	B	480	26.337	36.923	137.526	0.00	0.00	C
ATOM	18586	C	GLN	B	480	25.917	37.685	138.701	0.00	0.00	C
ATOM	18587	O	GLN	B	480	26.694	37.779	139.648	0.00	0.00	O
ATOM	18588	CB	GLN	B	480	26.738	37.873	136.360	0.00	0.00	C
ATOM	18589	CG	GLN	B	480	27.455	37.194	135.158	0.00	0.00	C
ATOM	18590	CD	GLN	B	480	26.617	36.272	134.370	0.00	0.00	C
ATOM	18591	NE2	GLN	B	480	26.990	35.012	134.128	0.00	0.00	N
ATOM	18592	OE1	GLN	B	480	25.531	36.640	133.877	0.00	0.00	O
ATOM	18593	HN	GLN	B	480	24.529	36.518	136.716	0.00	0.00	H
ATOM	18594	HNE2	GLN	B	480	27.823	34.672	134.483	0.00	0.00	H
ATOM	18595	HNE2	GLN	B	480	26.420	34.447	133.588	0.00	0.00	H
ATOM	18596	HCA	GLN	B	480	27.227	36.340	137.785	0.00	0.00	H
ATOM	18597	HCN	GLN	B	480	25.865	38.424	136.000	0.00	0.00	H
ATOM	18598	HCN	GLN	B	480	27.438	38.608	136.762	0.00	0.00	H
ATOM	18599	HCG	GLN	B	480	27.796	37.976	134.476	0.00	0.00	H
ATOM	18600	HCG	GLN	B	480	28.344	36.671	135.519	0.00	0.00	H
ATOM	18601	N	ILE	B	481	24.709	38.236	138.766	0.00	0.00	N
ATOM	18602	CA	ILE	B	481	24.197	38.902	139.942	0.00	0.00	C
ATOM	18603	C	ILE	B	481	24.180	37.974	141.114	0.00	0.00	C
ATOM	18604	O	ILE	B	481	24.692	38.367	142.184	0.00	0.00	O
ATOM	18605	CB	ILE	B	481	22.898	39.771	139.770	0.00	0.00	C
ATOM	18606	CG1	ILE	B	481	21.529	39.011	139.752	0.00	0.00	C
ATOM	18607	CG2	ILE	B	481	22.988	40.735	138.550	0.00	0.00	C
ATOM	18608	CD1	ILE	B	481	20.459	39.658	140.664	0.00	0.00	C
ATOM	18609	HN	ILE	B	481	24.155	38.152	137.986	0.00	0.00	H
ATOM	18610	HCA	ILE	B	481	24.960	39.645	140.184	0.00	0.00	H
ATOM	18611	HCN	ILE	B	481	22.889	40.424	140.651	0.00	0.00	H
ATOM	18612	HCD1	ILE	B	481	20.789	39.645	141.706	0.00	0.00	H
ATOM	18613	HCD1	ILE	B	481	20.278	40.693	140.367	0.00	0.00	H
ATOM	18614	HCD1	ILE	B	481	19.522	39.106	140.588	0.00	0.00	H
ATOM	18615	HCG1	ILE	B	481	21.123	39.001	138.740	0.00	0.00	H
ATOM	18616	HCG1	ILE	B	481	21.649	37.973	140.060	0.00	0.00	H
ATOM	18617	HCG2	ILE	B	481	23.892	41.335	138.593	0.00	0.00	H
ATOM	18618	HCG2	ILE	B	481	22.994	40.176	137.615	0.00	0.00	H
ATOM	18619	HCG2	ILE	B	481	22.136	41.418	138.537	0.00	0.00	H
ATOM	18620	N	SER	B	482	23.776	36.682	141.020	0.00	0.00	N
ATOM	18621	CA	SER	B	482	23.920	35.680	142.052	0.00	0.00	C
ATOM	18622	C	SER	B	482	25.333	35.499	142.499	0.00	0.00	C
ATOM	18623	O	SER	B	482	25.625	35.606	143.718	0.00	0.00	O
ATOM	18624	CB	SER	B	482	23.330	34.328	141.575	0.00	0.00	C
ATOM	18625	OG	SER	B	482	23.898	33.904	140.339	0.00	0.00	O
ATOM	18626	HN	SER	B	482	23.390	36.404	140.191	0.00	0.00	H
ATOM	18627	HCA	SER	B	482	23.320	36.002	142.908	0.00	0.00	H
ATOM	18628	HCN	SER	B	482	23.522	33.553	142.319	0.00	0.00	H
ATOM	18629	HCN	SER	B	482	22.247	34.415	141.451	0.00	0.00	H
ATOM	18630	HOG	SER	B	482	23.492	34.493	139.690	0.00	0.00	H
ATOM	18631	N	ALA	B	483	26.316	35.249	141.599	0.00	0.00	N
ATOM	18632	CA	ALA	B	483	27.717	35.174	141.910	0.00	0.00	C
ATOM	18633	C	ALA	B	483	28.201	36.351	142.692	0.00	0.00	C
ATOM	18634	O	ALA	B	483	28.790	36.142	143.779	0.00	0.00	O
ATOM	18635	CB	ALA	B	483	28.530	34.978	140.608	0.00	0.00	C
ATOM	18636	HN	ALA	B	483	26.043	35.085	140.683	0.00	0.00	H
ATOM	18637	HCA	ALA	B	483	27.864	34.271	142.512	0.00	0.00	H
ATOM	18638	HCN	ALA	B	483	28.458	35.855	139.965	0.00	0.00	H

ATOM	18639	HC	ALA	B	483	29.583	34.811	140.845	0.00	0.00	H
ATOM	18640	HC	ALA	B	483	28.162	34.110	140.058	0.00	0.00	H
ATOM	18641	N	ASN	B	484	27.962	37.621	142.281	0.00	0.00	N
ATOM	18642	CA	ASN	B	484	28.320	38.798	143.035	0.00	0.00	C
ATOM	18643	C	ASN	B	484	27.609	38.926	144.355	0.00	0.00	C
ATOM	18644	O	ASN	B	484	28.323	39.174	145.363	0.00	0.00	O
ATOM	18645	CB	ASN	B	484	28.219	40.085	142.159	0.00	0.00	C
ATOM	18646	CG	ASN	B	484	29.339	40.287	141.205	0.00	0.00	C
ATOM	18647	ND2	ASN	B	484	29.142	40.811	139.992	0.00	0.00	N
ATOM	18648	OD1	ASN	B	484	30.528	40.086	141.531	0.00	0.00	O
ATOM	18649	HN	ASN	B	484	27.521	37.721	141.432	0.00	0.00	H
ATOM	18650	HND2	ASN	B	484	28.248	41.013	139.739	0.00	0.00	H
ATOM	18651	HND2	ASN	B	484	29.874	41.046	139.415	0.00	0.00	H
ATOM	18652	HCA	ASN	B	484	29.381	38.686	143.278	0.00	0.00	H
ATOM	18653	HC	ASN	B	484	27.265	40.085	141.628	0.00	0.00	H
ATOM	18654	HC	ASN	B	484	28.225	40.963	142.809	0.00	0.00	H
ATOM	18655	N	ILE	B	485	26.261	38.762	144.524	0.00	0.00	N
ATOM	18656	CA	ILE	B	485	25.580	38.806	145.809	0.00	0.00	C
ATOM	18657	C	ILE	B	485	26.193	37.854	146.771	0.00	0.00	C
ATOM	18658	O	ILE	B	485	26.384	38.221	147.957	0.00	0.00	O
ATOM	18659	CB	ILE	B	485	24.001	38.700	145.843	0.00	0.00	C
ATOM	18660	CG1	ILE	B	485	23.373	37.265	145.784	0.00	0.00	C
ATOM	18661	CG2	ILE	B	485	23.297	39.691	144.874	0.00	0.00	C
ATOM	18662	CD1	ILE	B	485	23.159	36.601	147.174	0.00	0.00	C
ATOM	18663	HN	ILE	B	485	25.735	38.610	143.744	0.00	0.00	H
ATOM	18664	HCA	ILE	B	485	25.802	39.808	146.183	0.00	0.00	H
ATOM	18665	HC	ILE	B	485	23.704	39.064	146.825	0.00	0.00	H
ATOM	18666	HCD1	ILE	B	485	24.058	36.629	147.786	0.00	0.00	H
ATOM	18667	HCD1	ILE	B	485	22.362	37.116	147.716	0.00	0.00	H
ATOM	18668	HCD1	ILE	B	485	22.875	35.556	147.055	0.00	0.00	H
ATOM	18669	HCG1	ILE	B	485	22.395	37.295	145.295	0.00	0.00	H
ATOM	18670	HCG1	ILE	B	485	24.002	36.620	145.186	0.00	0.00	H
ATOM	18671	HCG2	ILE	B	485	23.821	40.648	144.839	0.00	0.00	H
ATOM	18672	HCG2	ILE	B	485	23.240	39.286	143.869	0.00	0.00	H
ATOM	18673	HCG2	ILE	B	485	22.273	39.880	145.207	0.00	0.00	H
ATOM	18674	N	THR	B	486	26.557	36.614	146.352	0.00	0.00	N
ATOM	18675	CA	THR	B	486	27.292	35.671	147.151	0.00	0.00	C
ATOM	18676	C	THR	B	486	28.639	36.211	147.495	0.00	0.00	C
ATOM	18677	O	THR	B	486	28.911	36.445	148.696	0.00	0.00	O
ATOM	18678	CB	THR	B	486	27.384	34.283	146.440	0.00	0.00	C
ATOM	18679	CG2	THR	B	486	27.897	33.156	147.365	0.00	0.00	C
ATOM	18680	OG1	THR	B	486	26.104	33.868	145.963	0.00	0.00	O
ATOM	18681	HN	THR	B	486	26.299	36.349	145.464	0.00	0.00	H
ATOM	18682	HCA	THR	B	486	26.722	35.520	148.074	0.00	0.00	H
ATOM	18683	HC	THR	B	486	28.050	34.347	145.576	0.00	0.00	H
ATOM	18684	HCG2	THR	B	486	27.233	33.032	148.222	0.00	0.00	H
ATOM	18685	HCG2	THR	B	486	27.934	32.213	146.816	0.00	0.00	H
ATOM	18686	HCG2	THR	B	486	28.902	33.381	147.726	0.00	0.00	H
ATOM	18687	HOG1	THR	B	486	25.919	34.453	145.214	0.00	0.00	H
ATOM	18688	N	LYS	B	487	29.552	36.493	146.531	0.00	0.00	N
ATOM	18689	CA	LYS	B	487	30.910	36.928	146.734	0.00	0.00	C
ATOM	18690	C	LYS	B	487	31.037	38.045	147.708	0.00	0.00	C
ATOM	18691	O	LYS	B	487	31.817	37.919	148.682	0.00	0.00	O
ATOM	18692	CB	LYS	B	487	31.533	37.324	145.361	0.00	0.00	C
ATOM	18693	CG	LYS	B	487	33.032	37.733	145.429	0.00	0.00	C
ATOM	18694	CD	LYS	B	487	33.591	38.188	144.054	0.00	0.00	C
ATOM	18695	CE	LYS	B	487	35.055	38.679	144.152	0.00	0.00	C
ATOM	18696	NZ	LYS	B	487	35.545	39.111	142.841	0.00	0.00	N
ATOM	18697	HN	LYS	B	487	29.277	36.364	145.624	0.00	0.00	H
ATOM	18698	HNZ	LYS	B	487	34.963	39.871	142.490	0.00	0.00	H
ATOM	18699	HNZ	LYS	B	487	36.507	39.436	142.925	0.00	0.00	H
ATOM	18700	HNZ	LYS	B	487	35.511	38.331	142.186	0.00	0.00	H
ATOM	18701	HCA	LYS	B	487	31.469	36.066	147.113	0.00	0.00	H
ATOM	18702	HC	LYS	B	487	31.436	36.480	144.672	0.00	0.00	H
ATOM	18703	HC	LYS	B	487	30.965	38.159	144.946	0.00	0.00	H
ATOM	18704	HCD	LYS	B	487	33.538	37.353	143.350	0.00	0.00	H
ATOM	18705	HCD	LYS	B	487	32.972	39.003	143.666	0.00	0.00	H
ATOM	18706	HCE	LYS	B	487	35.123	39.523	144.843	0.00	0.00	H
ATOM	18707	HCE	LYS	B	487	35.697	37.874	144.519	0.00	0.00	H
ATOM	18708	HCG	LYS	B	487	33.153	38.560	146.135	0.00	0.00	H
ATOM	18709	HCG	LYS	B	487	33.618	36.886	145.798	0.00	0.00	H
ATOM	18710	N	PHE	B	488	30.317	39.179	147.542	0.00	0.00	N
ATOM	18711	CA	PHE	B	488	30.418	40.324	148.406	0.00	0.00	C
ATOM	18712	C	PHE	B	488	29.676	40.167	149.690	0.00	0.00	C
ATOM	18713	O	PHE	B	488	29.827	41.069	150.551	0.00	0.00	O
ATOM	18714	CB	PHE	B	488	29.941	41.581	147.613	0.00	0.00	C
ATOM	18715	CG	PHE	B	488	30.899	42.017	146.560	0.00	0.00	C
ATOM	18716	CD1	PHE	B	488	32.101	42.670	146.920	0.00	0.00	C
ATOM	18717	CD2	PHE	B	488	30.629	41.807	145.187	0.00	0.00	C
ATOM	18718	CE1	PHE	B	488	33.009	43.102	145.936	0.00	0.00	C

ATOM	18719	CE2	PHE	B	488	31.539	42.234	144.202	0.00	0.00		C
ATOM	18720	CZ	PHE	B	488	32.728	42.884	144.576	0.00	0.00		C
ATOM	18721	HN	PHE	B	488	29.680	39.197	146.820	0.00	0.00		H
ATOM	18722	HCA	PHE	B	488	31.468	40.475	148.680	0.00	0.00		H
ATOM	18723	HCB	PHE	B	488	28.963	41.370	147.173	0.00	0.00		H
ATOM	18724	HCB	PHE	B	488	29.796	42.426	148.292	0.00	0.00		H
ATOM	18725	HCD1	PHE	B	488	32.320	42.841	147.905	0.00	0.00		H
ATOM	18726	HCD2	PHE	B	488	29.768	41.345	144.895	0.00	0.00		H
ATOM	18727	HCE1	PHE	B	488	33.872	43.578	146.209	0.00	0.00		H
ATOM	18728	HCE2	PHE	B	488	31.335	42.075	143.215	0.00	0.00		H
ATOM	18729	HCZ	PHE	B	488	33.386	43.200	143.859	0.00	0.00		H
ATOM	18730	N	ASN	B	489	28.870	39.106	149.961	0.00	0.00		N
ATOM	18731	CA	ASN	B	489	27.928	39.013	151.043	0.00	0.00		C
ATOM	18732	C	ASN	B	489	26.940	40.135	151.026	0.00	0.00		C
ATOM	18733	O	ASN	B	489	26.990	41.053	151.879	0.00	0.00		O
ATOM	18734	CB	ASN	B	489	28.627	38.764	152.418	0.00	0.00		C
ATOM	18735	CG	ASN	B	489	27.714	38.391	153.519	0.00	0.00		C
ATOM	18736	ND2	ASN	B	489	28.126	38.316	154.785	0.00	0.00		N
ATOM	18737	OD1	ASN	B	489	26.503	38.135	153.351	0.00	0.00		O
ATOM	18738	HN	ASN	B	489	28.919	38.324	149.402	0.00	0.00		H
ATOM	18739	HND2	ASN	B	489	29.049	38.492	155.017	0.00	0.00		H
ATOM	18740	HND2	ASN	B	489	27.477	38.096	155.466	0.00	0.00		H
ATOM	18741	HCA	ASN	B	489	27.354	38.104	150.834	0.00	0.00		H
ATOM	18742	HCB	ASN	B	489	29.356	37.958	152.310	0.00	0.00		H
ATOM	18743	HCB	ASN	B	489	29.168	39.663	152.716	0.00	0.00		H
ATOM	18744	N	ILE	B	490	25.973	40.149	150.083	0.00	0.00		N
ATOM	18745	CA	ILE	B	490	24.847	41.048	150.040	0.00	0.00		C
ATOM	18746	C	ILE	B	490	23.664	40.309	150.556	0.00	0.00		C
ATOM	18747	O	ILE	B	490	23.304	39.248	149.992	0.00	0.00		O
ATOM	18748	CB	ILE	B	490	24.612	41.600	148.595	0.00	0.00		C
ATOM	18749	CG1	ILE	B	490	25.888	42.176	147.903	0.00	0.00		C
ATOM	18750	CG2	ILE	B	490	23.410	42.579	148.518	0.00	0.00		C
ATOM	18751	CD1	ILE	B	490	26.488	43.444	148.545	0.00	0.00		C
ATOM	18752	HN	ILE	B	490	26.046	39.485	149.394	0.00	0.00		H
ATOM	18753	HCA	ILE	B	490	25.015	41.911	150.691	0.00	0.00		H
ATOM	18754	HCB	ILE	B	490	24.328	40.750	147.989	0.00	0.00		H
ATOM	18755	HCD1	ILE	B	490	25.879	44.317	148.328	0.00	0.00		H
ATOM	18756	HCD1	ILE	B	490	26.567	43.331	149.625	0.00	0.00		H
ATOM	18757	HCD1	ILE	B	490	27.482	43.617	148.137	0.00	0.00		H
ATOM	18758	HCG1	ILE	B	490	26.659	41.403	147.900	0.00	0.00		H
ATOM	18759	HCG1	ILE	B	490	25.663	42.396	146.855	0.00	0.00		H
ATOM	18760	HCG2	ILE	B	490	22.483	42.082	148.813	0.00	0.00		H
ATOM	18761	HCG2	ILE	B	490	23.568	43.430	149.181	0.00	0.00		H
ATOM	18762	HCG2	ILE	B	490	23.276	42.936	147.496	0.00	0.00		H
ATOM	18763	N	GLN	B	491	22.975	40.788	151.617	0.00	0.00		N
ATOM	18764	CA	GLN	B	491	21.807	40.219	152.220	0.00	0.00		C
ATOM	18765	C	GLN	B	491	20.667	41.104	151.976	0.00	0.00		C
ATOM	18766	O	GLN	B	491	19.616	40.615	151.580	0.00	0.00		O
ATOM	18767	CB	GLN	B	491	22.114	39.992	153.735	0.00	0.00		C
ATOM	18768	CG	GLN	B	491	23.020	38.748	153.976	0.00	0.00		C
ATOM	18769	CD	GLN	B	491	23.483	38.586	155.368	0.00	0.00		C
ATOM	18770	NE2	GLN	B	491	24.768	38.339	155.645	0.00	0.00		N
ATOM	18771	OE1	GLN	B	491	22.690	38.644	156.331	0.00	0.00		O
ATOM	18772	HN	GLN	B	491	23.258	41.605	152.025	0.00	0.00		H
ATOM	18773	HNE2	GLN	B	491	25.395	38.272	154.929	0.00	0.00		H
ATOM	18774	HNE2	GLN	B	491	25.046	38.228	156.565	0.00	0.00		H
ATOM	18775	HCA	GLN	B	491	21.578	39.244	151.776	0.00	0.00		H
ATOM	18776	HCB	GLN	B	491	22.585	40.881	154.160	0.00	0.00		H
ATOM	18777	HCB	GLN	B	491	21.185	39.835	154.282	0.00	0.00		H
ATOM	18778	HCG	GLN	B	491	22.462	37.849	153.716	0.00	0.00		H
ATOM	18779	HCG	GLN	B	491	23.886	38.797	153.313	0.00	0.00		H
ATOM	18780	N	GLY	B	492	20.762	42.413	152.151	0.00	0.00		N
ATOM	18781	CA	GLY	B	492	19.719	43.377	151.884	0.00	0.00		C
ATOM	18782	C	GLY	B	492	19.765	44.022	150.554	0.00	0.00		C
ATOM	18783	O	GLY	B	492	20.861	44.110	149.955	0.00	0.00		O
ATOM	18784	HN	GLY	B	492	21.615	42.729	152.456	0.00	0.00		H
ATOM	18785	HCA	GLY	B	492	18.735	42.921	151.988	0.00	0.00		H
ATOM	18786	HCA	GLY	B	492	19.790	44.156	152.638	0.00	0.00		H
ATOM	18787	N	LEU	B	493	18.629	44.522	150.003	0.00	0.00		N
ATOM	18788	CA	LEU	B	493	18.526	45.101	148.687	0.00	0.00		C
ATOM	18789	C	LEU	B	493	17.599	46.279	148.677	0.00	0.00		C
ATOM	18790	O	LEU	B	493	16.360	46.130	148.829	0.00	0.00		O
ATOM	18791	CB	LEU	B	493	18.116	43.973	147.679	0.00	0.00		C
ATOM	18792	CG	LEU	B	493	18.707	44.130	146.240	0.00	0.00		C
ATOM	18793	CD1	LEU	B	493	20.139	43.534	146.145	0.00	0.00		C
ATOM	18794	CD2	LEU	B	493	17.809	43.458	145.172	0.00	0.00		C
ATOM	18795	HN	LEU	B	493	17.812	44.431	150.517	0.00	0.00		H
ATOM	18796	HCA	LEU	B	493	19.512	45.471	148.392	0.00	0.00		H
ATOM	18797	HCB	LEU	B	493	18.419	42.994	148.063	0.00	0.00		H
ATOM	18798	HCB	LEU	B	493	17.030	43.939	147.631	0.00	0.00		H

ATOM	18799	HCD1	LEU	B	493	20.746	43.861	146.983	0.00	0.00	H
ATOM	18800	HCD1	LEU	B	493	20.114	42.444	146.168	0.00	0.00	H
ATOM	18801	HCD1	LEU	B	493	20.626	43.845	145.220	0.00	0.00	H
ATOM	18802	HCD2	LEU	B	493	17.729	42.383	145.349	0.00	0.00	H
ATOM	18803	HCD2	LEU	B	493	16.808	43.884	145.204	0.00	0.00	H
ATOM	18804	HCD2	LEU	B	493	18.217	43.621	144.172	0.00	0.00	H
ATOM	18805	HCG	LEU	B	493	18.756	45.197	145.997	0.00	0.00	H
ATOM	18806	N	VAL	B	494	18.087	47.531	148.511	0.00	0.00	N
ATOM	18807	CA	VAL	B	494	17.317	48.744	148.402	0.00	0.00	C
ATOM	18808	C	VAL	B	494	17.504	49.276	147.024	0.00	0.00	C
ATOM	18809	O	VAL	B	494	18.639	49.641	146.630	0.00	0.00	O
ATOM	18810	CB	VAL	B	494	17.703	49.751	149.540	0.00	0.00	C
ATOM	18811	CG1	VAL	B	494	16.942	51.101	149.411	0.00	0.00	C
ATOM	18812	CG2	VAL	B	494	17.435	49.154	150.951	0.00	0.00	C
ATOM	18813	HN	VAL	B	494	19.039	47.616	148.471	0.00	0.00	H
ATOM	18814	HCA	VAL	B	494	16.251	48.535	148.532	0.00	0.00	H
ATOM	18815	HCB	VAL	B	494	18.775	49.961	149.470	0.00	0.00	H
ATOM	18816	HCG1	VAL	B	494	17.202	51.600	148.477	0.00	0.00	H
ATOM	18817	HCG1	VAL	B	494	15.863	50.936	149.429	0.00	0.00	H
ATOM	18818	HCG1	VAL	B	494	17.204	51.776	150.229	0.00	0.00	H
ATOM	18819	HCG2	VAL	B	494	16.372	48.942	151.085	0.00	0.00	H
ATOM	18820	HCG2	VAL	B	494	17.993	48.228	151.090	0.00	0.00	H
ATOM	18821	HCG2	VAL	B	494	17.749	49.852	151.729	0.00	0.00	H
ATOM	18822	N	ILE	B	495	16.438	49.346	146.194	0.00	0.00	N
ATOM	18823	CA	ILE	B	495	16.418	49.785	144.834	0.00	0.00	C
ATOM	18824	C	ILE	B	495	15.703	51.089	144.812	0.00	0.00	C
ATOM	18825	O	ILE	B	495	14.491	51.139	145.123	0.00	0.00	O
ATOM	18826	CB	ILE	B	495	15.713	48.731	143.903	0.00	0.00	C
ATOM	18827	CG1	ILE	B	495	16.228	47.261	144.070	0.00	0.00	C
ATOM	18828	CG2	ILE	B	495	15.831	49.176	142.417	0.00	0.00	C
ATOM	18829	CD1	ILE	B	495	15.206	46.198	143.590	0.00	0.00	C
ATOM	18830	HN	ILE	B	495	15.592	49.066	146.533	0.00	0.00	H
ATOM	18831	HCA	ILE	B	495	17.435	49.933	144.472	0.00	0.00	H
ATOM	18832	HCB	ILE	B	495	14.650	48.724	144.162	0.00	0.00	H
ATOM	18833	HCD1	ILE	B	495	14.312	46.224	144.217	0.00	0.00	H
ATOM	18834	HCD1	ILE	B	495	14.910	46.364	142.555	0.00	0.00	H
ATOM	18835	HCD1	ILE	B	495	15.643	45.205	143.657	0.00	0.00	H
ATOM	18836	HCG1	ILE	B	495	17.169	47.129	143.529	0.00	0.00	H
ATOM	18837	HCG1	ILE	B	495	16.431	47.045	145.121	0.00	0.00	H
ATOM	18838	HCG2	ILE	B	495	15.406	50.170	142.274	0.00	0.00	H
ATOM	18839	HCG2	ILE	B	495	16.879	49.208	142.125	0.00	0.00	H
ATOM	18840	HCG2	ILE	B	495	15.311	48.491	141.749	0.00	0.00	H
ATOM	18841	N	ILE	B	496	16.330	52.221	144.436	0.00	0.00	N
ATOM	18842	CA	ILE	B	496	15.698	53.503	144.267	0.00	0.00	C
ATOM	18843	C	ILE	B	496	15.437	53.664	142.812	0.00	0.00	C
ATOM	18844	O	ILE	B	496	16.418	53.679	142.032	0.00	0.00	O
ATOM	18845	CB	ILE	B	496	16.579	54.618	144.929	0.00	0.00	C
ATOM	18846	CG1	ILE	B	496	16.888	54.340	146.441	0.00	0.00	C
ATOM	18847	CG2	ILE	B	496	15.905	56.009	144.787	0.00	0.00	C
ATOM	18848	CD1	ILE	B	496	18.196	54.987	146.947	0.00	0.00	C
ATOM	18849	HN	ILE	B	496	17.274	52.154	144.287	0.00	0.00	H
ATOM	18850	HCA	ILE	B	496	14.730	53.530	144.761	0.00	0.00	H
ATOM	18851	HCB	ILE	B	496	17.528	54.647	144.383	0.00	0.00	H
ATOM	18852	HCD1	ILE	B	496	19.049	54.548	146.428	0.00	0.00	H
ATOM	18853	HCD1	ILE	B	496	18.193	56.061	146.772	0.00	0.00	H
ATOM	18854	HCD1	ILE	B	496	18.313	54.809	148.018	0.00	0.00	H
ATOM	18855	HCG1	ILE	B	496	16.062	54.695	147.060	0.00	0.00	H
ATOM	18856	HCG1	ILE	B	496	16.985	53.269	146.625	0.00	0.00	H
ATOM	18857	HCG2	ILE	B	496	15.672	56.201	143.745	0.00	0.00	H
ATOM	18858	HCG2	ILE	B	496	14.976	56.057	145.357	0.00	0.00	H
ATOM	18859	HCG2	ILE	B	496	16.571	56.795	145.140	0.00	0.00	H
ATOM	18860	N	GLY	B	497	14.182	53.734	142.295	0.00	0.00	N
ATOM	18861	CA	GLY	B	497	13.946	53.734	140.873	0.00	0.00	C
ATOM	18862	C	GLY	B	497	12.557	53.751	140.383	0.00	0.00	C
ATOM	18863	O	GLY	B	497	11.592	53.903	141.167	0.00	0.00	O
ATOM	18864	HN	GLY	B	497	13.440	53.776	142.907	0.00	0.00	H
ATOM	18865	HCA	GLY	B	497	14.431	54.608	140.437	0.00	0.00	H
ATOM	18866	HCA	GLY	B	497	14.428	52.849	140.460	0.00	0.00	H
ATOM	18867	N	GLY	B	498	12.371	53.626	139.046	0.00	0.00	N
ATOM	18868	CA	GLY	B	498	11.134	53.818	138.345	0.00	0.00	C
ATOM	18869	C	GLY	B	498	10.439	52.586	137.906	0.00	0.00	C
ATOM	18870	O	GLY	B	498	10.428	51.550	138.615	0.00	0.00	O
ATOM	18871	HN	GLY	B	498	13.165	53.443	138.522	0.00	0.00	H
ATOM	18872	HCA	GLY	B	498	10.441	54.394	138.954	0.00	0.00	H
ATOM	18873	HCA	GLY	B	498	11.362	54.434	137.472	0.00	0.00	H
ATOM	18874	N	PHE	B	499	9.767	52.581	136.731	0.00	0.00	N
ATOM	18875	CA	PHE	B	499	9.005	51.471	136.224	0.00	0.00	C
ATOM	18876	C	PHE	B	499	9.878	50.283	136.042	0.00	0.00	C
ATOM	18877	O	PHE	B	499	9.564	49.182	136.544	0.00	0.00	O
ATOM	18878	CB	PHE	B	499	8.259	51.873	134.920	0.00	0.00	C

ATOM	18879	CG	PHE	B	499	7.142	50.937	134.617	0.00	0.00	C
ATOM	18880	CD1	PHE	B	499	7.370	49.743	133.897	0.00	0.00	C
ATOM	18881	CD2	PHE	B	499	5.836	51.205	135.091	0.00	0.00	C
ATOM	18882	CE1	PHE	B	499	6.324	48.829	133.677	0.00	0.00	C
ATOM	18883	CE2	PHE	B	499	4.787	50.292	134.872	0.00	0.00	C
ATOM	18884	CZ	PHE	B	499	5.035	49.099	134.171	0.00	0.00	C
ATOM	18885	HN	PHE	B	499	9.795	53.391	136.199	0.00	0.00	H
ATOM	18886	HCA	PHE	B	499	8.248	51.237	136.982	0.00	0.00	H
ATOM	18887	HCB	PHE	B	499	7.858	52.882	135.043	0.00	0.00	H
ATOM	18888	HCB	PHE	B	499	8.954	51.916	134.077	0.00	0.00	H
ATOM	18889	HCD1	PHE	B	499	8.304	49.530	133.536	0.00	0.00	H
ATOM	18890	HCD2	PHE	B	499	5.644	52.062	135.607	0.00	0.00	H
ATOM	18891	HCE1	PHE	B	499	6.504	47.967	133.159	0.00	0.00	H
ATOM	18892	HCE2	PHE	B	499	3.849	50.497	135.224	0.00	0.00	H
ATOM	18893	HCZ	PHE	B	499	4.275	48.434	134.018	0.00	0.00	H
ATOM	18894	N	GLU	B	500	11.056	50.393	135.397	0.00	0.00	N
ATOM	18895	CA	GLU	B	500	12.084	49.400	135.344	0.00	0.00	C
ATOM	18896	C	GLU	B	500	12.592	48.915	136.665	0.00	0.00	C
ATOM	18897	O	GLU	B	500	13.221	47.832	136.664	0.00	0.00	O
ATOM	18898	CB	GLU	B	500	13.226	49.953	134.442	0.00	0.00	C
ATOM	18899	CG	GLU	B	500	12.834	50.115	132.942	0.00	0.00	C
ATOM	18900	CD	GLU	B	500	11.716	51.033	132.657	0.00	0.00	C
ATOM	18901	OE1	GLU	B	500	10.825	50.738	131.837	0.00	0.00	O
ATOM	18902	OE2	GLU	B	500	11.608	52.173	133.160	0.00	0.00	O
ATOM	18903	HN	GLU	B	500	11.196	51.160	134.838	0.00	0.00	H
ATOM	18904	HCA	GLU	B	500	11.651	48.540	134.832	0.00	0.00	H
ATOM	18905	HCB	GLU	B	500	13.569	50.915	134.836	0.00	0.00	H
ATOM	18906	HCB	GLU	B	500	14.079	49.269	134.480	0.00	0.00	H
ATOM	18907	HCG	GLU	B	500	13.701	50.486	132.399	0.00	0.00	H
ATOM	18908	HCG	GLU	B	500	12.593	49.133	132.526	0.00	0.00	H
ATOM	18909	N	ALA	B	501	12.347	49.518	137.857	0.00	0.00	N
ATOM	18910	CA	ALA	B	501	12.726	49.006	139.149	0.00	0.00	C
ATOM	18911	C	ALA	B	501	11.626	48.163	139.673	0.00	0.00	C
ATOM	18912	O	ALA	B	501	11.898	47.072	140.223	0.00	0.00	O
ATOM	18913	CB	ALA	B	501	13.044	50.165	140.114	0.00	0.00	C
ATOM	18914	HN	ALA	B	501	11.775	50.285	137.895	0.00	0.00	H
ATOM	18915	HCA	ALA	B	501	13.633	48.396	139.074	0.00	0.00	H
ATOM	18916	HCB	ALA	B	501	12.195	50.836	140.233	0.00	0.00	H
ATOM	18917	HCB	ALA	B	501	13.297	49.775	141.099	0.00	0.00	H
ATOM	18918	HCB	ALA	B	501	13.894	50.727	139.732	0.00	0.00	H
ATOM	18919	N	TYR	B	502	10.340	48.538	139.485	0.00	0.00	N
ATOM	18920	CA	TYR	B	502	9.208	47.662	139.663	0.00	0.00	C
ATOM	18921	C	TYR	B	502	9.334	46.409	138.839	0.00	0.00	C
ATOM	18922	O	TYR	B	502	9.231	45.274	139.374	0.00	0.00	O
ATOM	18923	CB	TYR	B	502	7.909	48.476	139.373	0.00	0.00	C
ATOM	18924	CG	TYR	B	502	6.694	47.627	139.431	0.00	0.00	C
ATOM	18925	CD1	TYR	B	502	6.246	47.140	140.676	0.00	0.00	C
ATOM	18926	CD2	TYR	B	502	6.013	47.236	138.255	0.00	0.00	C
ATOM	18927	CE1	TYR	B	502	5.173	46.238	140.744	0.00	0.00	C
ATOM	18928	CE2	TYR	B	502	4.947	46.322	138.327	0.00	0.00	C
ATOM	18929	CZ	TYR	B	502	4.541	45.801	139.568	0.00	0.00	C
ATOM	18930	OH	TYR	B	502	3.577	44.858	139.641	0.00	0.00	O
ATOM	18931	HN	TYR	B	502	10.213	49.443	139.164	0.00	0.00	H
ATOM	18932	HCA	TYR	B	502	9.183	47.369	140.718	0.00	0.00	H
ATOM	18933	HCB	TYR	B	502	7.814	49.286	140.102	0.00	0.00	H
ATOM	18934	HCB	TYR	B	502	7.977	48.950	138.396	0.00	0.00	H
ATOM	18935	HCD1	TYR	B	502	6.715	47.426	141.535	0.00	0.00	H
ATOM	18936	HCD2	TYR	B	502	6.308	47.588	137.340	0.00	0.00	H
ATOM	18937	HCE1	TYR	B	502	4.864	45.894	141.650	0.00	0.00	H
ATOM	18938	HCE2	TYR	B	502	4.485	46.014	137.473	0.00	0.00	H
ATOM	18939	HOH	TYR	B	502	3.441	44.411	140.488	0.00	0.00	H
ATOM	18940	N	THR	B	503	9.608	46.491	137.515	0.00	0.00	N
ATOM	18941	CA	THR	B	503	9.876	45.378	136.636	0.00	0.00	C
ATOM	18942	C	THR	B	503	11.084	44.619	137.063	0.00	0.00	C
ATOM	18943	O	THR	B	503	11.009	43.369	137.129	0.00	0.00	O
ATOM	18944	CB	THR	B	503	9.977	45.823	135.149	0.00	0.00	C
ATOM	18945	CG2	THR	B	503	9.989	44.647	134.143	0.00	0.00	C
ATOM	18946	OG1	THR	B	503	8.857	46.639	134.815	0.00	0.00	O
ATOM	18947	HN	THR	B	503	9.620	47.375	137.150	0.00	0.00	H
ATOM	18948	HCA	THR	B	503	9.007	44.717	136.702	0.00	0.00	H
ATOM	18949	HCB	THR	B	503	10.887	46.407	135.013	0.00	0.00	H
ATOM	18950	HCG2	THR	B	503	10.855	44.004	134.310	0.00	0.00	H
ATOM	18951	HCG2	THR	B	503	9.081	44.049	134.246	0.00	0.00	H
ATOM	18952	HCG2	THR	B	503	10.040	45.028	133.121	0.00	0.00	H
ATOM	18953	HOG1	THR	B	503	9.027	46.953	133.901	0.00	0.00	H
ATOM	18954	N	GLY	B	504	12.242	45.227	137.431	0.00	0.00	N
ATOM	18955	CA	GLY	B	504	13.326	44.591	138.126	0.00	0.00	C
ATOM	18956	C	GLY	B	504	12.910	43.738	139.262	0.00	0.00	C
ATOM	18957	O	GLY	B	504	13.281	42.546	139.301	0.00	0.00	O
ATOM	18958	HN	GLY	B	504	12.393	46.145	137.201	0.00	0.00	H

ATOM	18959	HCA	GLY	B	504	13.904	44.009	137.407	0.00	0.00	H
ATOM	18960	HCA	GLY	B	504	13.973	45.372	138.519	0.00	0.00	H
ATOM	18961	N	GLY	B	505	12.084	44.228	140.211	0.00	0.00	N
ATOM	18962	CA	GLY	B	505	11.420	43.479	141.238	0.00	0.00	C
ATOM	18963	C	GLY	B	505	10.682	42.283	140.763	0.00	0.00	C
ATOM	18964	O	GLY	B	505	10.920	41.169	141.284	0.00	0.00	O
ATOM	18965	HN	GLY	B	505	11.954	45.173	140.195	0.00	0.00	H
ATOM	18966	HCA	GLY	B	505	12.159	43.191	141.988	0.00	0.00	H
ATOM	18967	HCA	GLY	B	505	10.703	44.143	141.721	0.00	0.00	H
ATOM	18968	N	LEU	B	506	9.764	42.377	139.773	0.00	0.00	N
ATOM	18969	CA	LEU	B	506	9.107	41.239	139.159	0.00	0.00	C
ATOM	18970	C	LEU	B	506	10.058	40.219	138.606	0.00	0.00	C
ATOM	18971	O	LEU	B	506	9.881	38.996	138.844	0.00	0.00	O
ATOM	18972	CB	LEU	B	506	8.094	41.677	138.060	0.00	0.00	C
ATOM	18973	CG	LEU	B	506	6.873	42.524	138.539	0.00	0.00	C
ATOM	18974	CD1	LEU	B	506	6.077	43.033	137.308	0.00	0.00	C
ATOM	18975	CD2	LEU	B	506	5.915	41.740	139.478	0.00	0.00	C
ATOM	18976	HN	LEU	B	506	9.554	43.278	139.498	0.00	0.00	H
ATOM	18977	HCA	LEU	B	506	8.544	40.736	139.946	0.00	0.00	H
ATOM	18978	HCB	LEU	B	506	8.643	42.244	137.305	0.00	0.00	H
ATOM	18979	HCB	LEU	B	506	7.705	40.782	137.564	0.00	0.00	H
ATOM	18980	HCD1	LEU	B	506	5.751	42.200	136.682	0.00	0.00	H
ATOM	18981	HCD1	LEU	B	506	5.195	43.585	137.627	0.00	0.00	H
ATOM	18982	HCD1	LEU	B	506	6.694	43.702	136.705	0.00	0.00	H
ATOM	18983	HCD2	LEU	B	506	6.426	41.425	140.384	0.00	0.00	H
ATOM	18984	HCD2	LEU	B	506	5.083	42.376	139.782	0.00	0.00	H
ATOM	18985	HCD2	LEU	B	506	5.520	40.855	138.976	0.00	0.00	H
ATOM	18986	HCG	LEU	B	506	7.240	43.400	139.084	0.00	0.00	H
ATOM	18987	N	GLU	B	507	11.125	40.588	137.860	0.00	0.00	N
ATOM	18988	CA	GLU	B	507	12.163	39.689	137.425	0.00	0.00	C
ATOM	18989	C	GLU	B	507	12.850	39.027	138.571	0.00	0.00	C
ATOM	18990	O	GLU	B	507	12.931	37.778	138.565	0.00	0.00	O
ATOM	18991	CB	GLU	B	507	13.186	40.384	136.486	0.00	0.00	C
ATOM	18992	CG	GLU	B	507	12.608	40.703	135.075	0.00	0.00	C
ATOM	18993	CD	GLU	B	507	13.611	41.064	134.061	0.00	0.00	C
ATOM	18994	OE1	GLU	B	507	14.832	41.152	134.325	0.00	0.00	O
ATOM	18995	OE2	GLU	B	507	13.251	41.257	132.880	0.00	0.00	O
ATOM	18996	HN	GLU	B	507	11.170	41.515	137.621	0.00	0.00	H
ATOM	18997	HCA	GLU	B	507	11.680	38.901	136.837	0.00	0.00	H
ATOM	18998	HCB	GLU	B	507	13.552	41.305	136.945	0.00	0.00	H
ATOM	18999	HCB	GLU	B	507	14.044	39.716	136.356	0.00	0.00	H
ATOM	19000	HCG	GLU	B	507	12.081	39.828	134.690	0.00	0.00	H
ATOM	19001	HCG	GLU	B	507	11.893	41.523	135.152	0.00	0.00	H
ATOM	19002	N	LEU	B	508	13.338	39.719	139.628	0.00	0.00	N
ATOM	19003	CA	LEU	B	508	13.882	39.139	140.831	0.00	0.00	C
ATOM	19004	C	LEU	B	508	12.951	38.142	141.436	0.00	0.00	C
ATOM	19005	O	LEU	B	508	13.417	37.021	141.744	0.00	0.00	O
ATOM	19006	CB	LEU	B	508	14.269	40.226	141.878	0.00	0.00	C
ATOM	19007	CG	LEU	B	508	15.469	41.154	141.503	0.00	0.00	C
ATOM	19008	CD1	LEU	B	508	15.540	42.349	142.491	0.00	0.00	C
ATOM	19009	CD2	LEU	B	508	16.833	40.411	141.479	0.00	0.00	C
ATOM	19010	HN	LEU	B	508	13.306	40.670	139.557	0.00	0.00	H
ATOM	19011	HCA	LEU	B	508	14.793	38.606	140.547	0.00	0.00	H
ATOM	19012	HCB	LEU	B	508	13.387	40.845	142.058	0.00	0.00	H
ATOM	19013	HCB	LEU	B	508	14.511	39.738	142.828	0.00	0.00	H
ATOM	19014	HCD1	LEU	B	508	14.632	42.950	142.429	0.00	0.00	H
ATOM	19015	HCD1	LEU	B	508	15.652	41.994	143.518	0.00	0.00	H
ATOM	19016	HCD1	LEU	B	508	16.385	42.996	142.253	0.00	0.00	H
ATOM	19017	HCD2	LEU	B	508	16.852	39.662	140.688	0.00	0.00	H
ATOM	19018	HCD2	LEU	B	508	17.645	41.114	141.282	0.00	0.00	H
ATOM	19019	HCD2	LEU	B	508	17.024	39.920	142.436	0.00	0.00	H
ATOM	19020	HCG	LEU	B	508	15.302	41.564	140.505	0.00	0.00	H
ATOM	19021	N	MET	B	509	11.627	38.399	141.597	0.00	0.00	N
ATOM	19022	CA	MET	B	509	10.636	37.424	141.984	0.00	0.00	C
ATOM	19023	C	MET	B	509	10.646	36.220	141.112	0.00	0.00	C
ATOM	19024	O	MET	B	509	10.784	35.102	141.652	0.00	0.00	O
ATOM	19025	CB	MET	B	509	9.188	37.993	142.025	0.00	0.00	C
ATOM	19026	CG	MET	B	509	8.883	38.940	143.201	0.00	0.00	C
ATOM	19027	SD	MET	B	509	8.926	38.080	144.794	0.00	0.00	S
ATOM	19028	CE	MET	B	509	7.970	39.301	145.712	0.00	0.00	C
ATOM	19029	HN	MET	B	509	11.350	39.302	141.443	0.00	0.00	H
ATOM	19030	HCA	MET	B	509	10.895	37.104	142.996	0.00	0.00	H
ATOM	19031	HCB	MET	B	509	8.983	38.526	141.099	0.00	0.00	H
ATOM	19032	HCB	MET	B	509	8.465	37.172	142.082	0.00	0.00	H
ATOM	19033	HCE	MET	B	509	8.324	40.300	145.482	0.00	0.00	H
ATOM	19034	HCE	MET	B	509	6.916	39.223	145.446	0.00	0.00	H
ATOM	19035	HCE	MET	B	509	8.089	39.130	146.779	0.00	0.00	H
ATOM	19036	HCG	MET	B	509	9.596	39.763	143.215	0.00	0.00	H
ATOM	19037	HCG	MET	B	509	7.885	39.348	143.040	0.00	0.00	H
ATOM	19038	N	GLU	B	510	10.518	36.272	139.767	0.00	0.00	N

ATOM	19039	CA	GLU	B	510	10.613	35.099	138.925	0.00	0.00	C
ATOM	19040	C	GLU	B	510	11.881	34.344	139.167	0.00	0.00	C
ATOM	19041	O	GLU	B	510	11.837	33.147	139.547	0.00	0.00	O
ATOM	19042	CB	GLU	B	510	10.410	35.464	137.425	0.00	0.00	C
ATOM	19043	CG	GLU	B	510	8.945	35.847	137.061	0.00	0.00	C
ATOM	19044	CD	GLU	B	510	7.968	34.771	137.315	0.00	0.00	C
ATOM	19045	OE1	GLU	B	510	7.017	34.913	138.109	0.00	0.00	O
ATOM	19046	OE2	GLU	B	510	8.079	33.641	136.795	0.00	0.00	O
ATOM	19047	HN	GLU	B	510	10.345	37.138	139.384	0.00	0.00	H
ATOM	19048	HCA	GLU	B	510	9.797	34.430	139.214	0.00	0.00	H
ATOM	19049	HCB	GLU	B	510	11.070	36.294	137.161	0.00	0.00	H
ATOM	19050	HCB	GLU	B	510	10.701	34.611	136.803	0.00	0.00	H
ATOM	19051	HCG	GLU	B	510	8.653	36.739	137.620	0.00	0.00	H
ATOM	19052	HCG	GLU	B	510	8.896	36.094	135.998	0.00	0.00	H
ATOM	19053	N	GLY	B	511	13.070	34.986	139.135	0.00	0.00	N
ATOM	19054	CA	GLY	B	511	14.341	34.405	139.455	0.00	0.00	C
ATOM	19055	C	GLY	B	511	14.466	33.844	140.821	0.00	0.00	C
ATOM	19056	O	GLY	B	511	15.442	33.093	141.054	0.00	0.00	O
ATOM	19057	HN	GLY	B	511	13.042	35.916	138.920	0.00	0.00	H
ATOM	19058	HCA	GLY	B	511	14.555	33.621	138.727	0.00	0.00	H
ATOM	19059	HCA	GLY	B	511	15.107	35.174	139.346	0.00	0.00	H
ATOM	19060	N	ARG	B	512	13.536	34.072	141.782	0.00	0.00	N
ATOM	19061	CA	ARG	B	512	13.527	33.535	143.116	0.00	0.00	C
ATOM	19062	C	ARG	B	512	13.128	32.103	143.080	0.00	0.00	C
ATOM	19063	O	ARG	B	512	13.354	31.388	144.084	0.00	0.00	O
ATOM	19064	CB	ARG	B	512	12.523	34.407	143.933	0.00	0.00	C
ATOM	19065	CG	ARG	B	512	12.655	34.493	145.475	0.00	0.00	C
ATOM	19066	CD	ARG	B	512	11.700	35.599	146.009	0.00	0.00	C
ATOM	19067	NE	ARG	B	512	11.731	35.744	147.422	0.00	0.00	N
ATOM	19068	CZ	ARG	B	512	10.929	36.549	148.120	0.00	0.00	C
ATOM	19069	NH1	ARG	B	512	9.917	37.282	147.700	0.00	0.00	N
ATOM	19070	NH2	ARG	B	512	11.170	36.565	149.407	0.00	0.00	N
ATOM	19071	HN	ARG	B	512	12.739	34.560	141.555	0.00	0.00	H
ATOM	19072	HNE	ARG	B	512	12.363	35.254	147.960	0.00	0.00	H
ATOM	19073	HNH1	ARG	B	512	9.729	37.427	146.777	0.00	0.00	H
ATOM	19074	HNH1	ARG	B	512	9.320	37.605	148.372	0.00	0.00	H
ATOM	19075	HNH2	ARG	B	512	11.814	35.946	149.704	0.00	0.00	H
ATOM	19076	HNH2	ARG	B	512	10.781	37.202	149.996	0.00	0.00	H
ATOM	19077	HCA	ARG	B	512	14.528	33.625	143.547	0.00	0.00	H
ATOM	19078	HCB	ARG	B	512	12.619	35.434	143.573	0.00	0.00	H
ATOM	19079	HCB	ARG	B	512	11.507	34.068	143.718	0.00	0.00	H
ATOM	19080	HCD	ARG	B	512	11.979	36.561	145.566	0.00	0.00	H
ATOM	19081	HCD	ARG	B	512	10.677	35.361	145.698	0.00	0.00	H
ATOM	19082	HCG	ARG	B	512	12.402	33.530	145.925	0.00	0.00	H
ATOM	19083	HCG	ARG	B	512	13.683	34.743	145.731	0.00	0.00	H
ATOM	19084	N	LYS	B	513	12.537	31.575	141.974	0.00	0.00	N
ATOM	19085	CA	LYS	B	513	12.217	30.195	141.774	0.00	0.00	C
ATOM	19086	C	LYS	B	513	13.477	29.460	141.466	0.00	0.00	C
ATOM	19087	O	LYS	B	513	13.863	28.543	142.230	0.00	0.00	O
ATOM	19088	CB	LYS	B	513	11.148	30.079	140.644	0.00	0.00	C
ATOM	19089	CG	LYS	B	513	9.823	30.844	140.943	0.00	0.00	C
ATOM	19090	CD	LYS	B	513	8.913	30.997	139.692	0.00	0.00	C
ATOM	19091	CE	LYS	B	513	7.625	31.801	139.993	0.00	0.00	C
ATOM	19092	NZ	LYS	B	513	6.802	31.964	138.791	0.00	0.00	N
ATOM	19093	HN	LYS	B	513	12.347	32.158	141.230	0.00	0.00	H
ATOM	19094	HNZ	LYS	B	513	7.241	32.598	138.145	0.00	0.00	H
ATOM	19095	HNZ	LYS	B	513	6.659	31.064	138.337	0.00	0.00	H
ATOM	19096	HNZ	LYS	B	513	5.898	32.358	139.050	0.00	0.00	H
ATOM	19097	HCA	LYS	B	513	11.775	29.786	142.690	0.00	0.00	H
ATOM	19098	HCB	LYS	B	513	11.572	30.461	139.714	0.00	0.00	H
ATOM	19099	HCB	LYS	B	513	10.911	29.023	140.483	0.00	0.00	H
ATOM	19100	HCD	LYS	B	513	9.468	31.514	138.904	0.00	0.00	H
ATOM	19101	HCD	LYS	B	513	8.639	30.005	139.322	0.00	0.00	H
ATOM	19102	HCE	LYS	B	513	7.034	31.277	140.748	0.00	0.00	H
ATOM	19103	HCE	LYS	B	513	7.877	32.792	140.377	0.00	0.00	H
ATOM	19104	HCG	LYS	B	513	9.278	30.313	141.730	0.00	0.00	H
ATOM	19105	HCG	LYS	B	513	10.050	31.846	141.316	0.00	0.00	H
ATOM	19106	N	GLN	B	514	14.224	29.789	140.385	0.00	0.00	N
ATOM	19107	CA	GLN	B	514	15.477	29.215	139.993	0.00	0.00	C
ATOM	19108	C	GLN	B	514	16.583	29.435	140.934	0.00	0.00	C
ATOM	19109	O	GLN	B	514	17.217	28.454	141.304	0.00	0.00	O
ATOM	19110	CB	GLN	B	514	15.854	29.749	138.573	0.00	0.00	C
ATOM	19111	CG	GLN	B	514	14.831	29.426	137.438	0.00	0.00	C
ATOM	19112	CD	GLN	B	514	13.636	30.294	137.350	0.00	0.00	C
ATOM	19113	NE2	GLN	B	514	12.670	30.030	136.468	0.00	0.00	N
ATOM	19114	OE1	GLN	B	514	13.467	31.299	138.073	0.00	0.00	O
ATOM	19115	HN	GLN	B	514	13.874	30.424	139.761	0.00	0.00	H
ATOM	19116	HNE2	GLN	B	514	12.741	29.267	135.878	0.00	0.00	H
ATOM	19117	HNE2	GLN	B	514	11.897	30.613	136.425	0.00	0.00	H
ATOM	19118	HCA	GLN	B	514	15.315	28.136	139.888	0.00	0.00	H



ATOM	19119	HCN	GLN	B	514	16.008	30.829	138.613	0.00	0.00	H
ATOM	19120	HCN	GLN	B	514	16.810	29.299	138.285	0.00	0.00	H
ATOM	19121	HCG	GLN	B	514	15.346	29.511	136.478	0.00	0.00	H
ATOM	19122	HCG	GLN	B	514	14.499	28.391	137.540	0.00	0.00	H
ATOM	19123	N	PHE	B	515	16.944	30.638	141.358	0.00	0.00	N
ATOM	19124	CA	PHE	B	515	18.153	30.955	142.080	0.00	0.00	C
ATOM	19125	C	PHE	B	515	17.849	31.204	143.516	0.00	0.00	C
ATOM	19126	O	PHE	B	515	17.321	32.286	143.871	0.00	0.00	O
ATOM	19127	CB	PHE	B	515	18.847	32.186	141.420	0.00	0.00	C
ATOM	19128	CG	PHE	B	515	19.316	31.946	140.030	0.00	0.00	C
ATOM	19129	CD1	PHE	B	515	18.494	32.268	138.924	0.00	0.00	C
ATOM	19130	CD2	PHE	B	515	20.596	31.396	139.786	0.00	0.00	C
ATOM	19131	CE1	PHE	B	515	18.928	32.016	137.609	0.00	0.00	C
ATOM	19132	CE2	PHE	B	515	21.042	31.171	138.470	0.00	0.00	C
ATOM	19133	CZ	PHE	B	515	20.206	31.477	137.381	0.00	0.00	C
ATOM	19134	HN	PHE	B	515	16.379	31.391	141.172	0.00	0.00	H
ATOM	19135	HCA	PHE	B	515	18.868	30.126	142.030	0.00	0.00	H
ATOM	19136	HCN	PHE	B	515	18.153	33.029	141.425	0.00	0.00	H
ATOM	19137	HCN	PHE	B	515	19.702	32.490	142.031	0.00	0.00	H
ATOM	19138	HCD1	PHE	B	515	17.573	32.687	139.070	0.00	0.00	H
ATOM	19139	HCD2	PHE	B	515	21.213	31.158	140.566	0.00	0.00	H
ATOM	19140	HCE1	PHE	B	515	18.317	32.232	136.819	0.00	0.00	H
ATOM	19141	HCE2	PHE	B	515	21.973	30.782	138.306	0.00	0.00	H
ATOM	19142	HCZ	PHE	B	515	20.528	31.308	136.425	0.00	0.00	H
ATOM	19143	N	ASP	B	516	18.184	30.299	144.467	0.00	0.00	N
ATOM	19144	CA	ASP	B	516	18.024	30.492	145.885	0.00	0.00	C
ATOM	19145	C	ASP	B	516	18.861	31.614	146.402	0.00	0.00	C
ATOM	19146	O	ASP	B	516	18.545	32.221	147.454	0.00	0.00	O
ATOM	19147	CB	ASP	B	516	18.276	29.146	146.617	0.00	0.00	C
ATOM	19148	CG	ASP	B	516	19.667	28.687	146.514	0.00	0.00	C
ATOM	19149	OD1	ASP	B	516	19.973	27.691	145.826	0.00	0.00	O
ATOM	19150	OD2	ASP	B	516	20.568	29.306	147.119	0.00	0.00	O
ATOM	19151	HN	ASP	B	516	18.613	29.478	144.178	0.00	0.00	H
ATOM	19152	HCA	ASP	B	516	16.978	30.756	146.056	0.00	0.00	H
ATOM	19153	HCN	ASP	B	516	18.024	29.247	147.675	0.00	0.00	H
ATOM	19154	HCN	ASP	B	516	17.612	28.385	146.198	0.00	0.00	H
ATOM	19155	N	GLU	B	517	19.939	32.021	145.697	0.00	0.00	N
ATOM	19156	CA	GLU	B	517	20.717	33.195	145.916	0.00	0.00	C
ATOM	19157	C	GLU	B	517	19.898	34.436	145.851	0.00	0.00	C
ATOM	19158	O	GLU	B	517	20.355	35.469	146.388	0.00	0.00	O
ATOM	19159	CB	GLU	B	517	21.868	33.241	144.864	0.00	0.00	C
ATOM	19160	CG	GLU	B	517	22.704	31.926	144.721	0.00	0.00	C
ATOM	19161	CD	GLU	B	517	22.275	31.043	143.614	0.00	0.00	C
ATOM	19162	OE1	GLU	B	517	21.126	30.552	143.565	0.00	0.00	O
ATOM	19163	OE2	GLU	B	517	23.053	30.768	142.676	0.00	0.00	O
ATOM	19164	HN	GLU	B	517	20.234	31.475	144.970	0.00	0.00	H
ATOM	19165	HCA	GLU	B	517	21.158	33.121	146.916	0.00	0.00	H
ATOM	19166	HCN	GLU	B	517	21.453	33.515	143.889	0.00	0.00	H
ATOM	19167	HCN	GLU	B	517	22.550	34.046	145.150	0.00	0.00	H
ATOM	19168	HCG	GLU	B	517	23.751	32.194	144.555	0.00	0.00	H
ATOM	19169	HCG	GLU	B	517	22.671	31.351	145.648	0.00	0.00	H
ATOM	19170	N	LEU	B	518	18.679	34.463	145.255	0.00	0.00	N
ATOM	19171	CA	LEU	B	518	17.799	35.593	145.206	0.00	0.00	C
ATOM	19172	C	LEU	B	518	16.669	35.431	146.163	0.00	0.00	C
ATOM	19173	O	LEU	B	518	15.769	36.307	146.140	0.00	0.00	O
ATOM	19174	CB	LEU	B	518	17.352	35.820	143.728	0.00	0.00	C
ATOM	19175	CG	LEU	B	518	18.505	35.926	142.675	0.00	0.00	C
ATOM	19176	CD1	LEU	B	518	17.926	36.144	141.252	0.00	0.00	C
ATOM	19177	CD2	LEU	B	518	19.543	37.033	143.000	0.00	0.00	C
ATOM	19178	HN	LEU	B	518	18.340	33.672	144.830	0.00	0.00	H
ATOM	19179	HCA	LEU	B	518	18.307	36.506	145.528	0.00	0.00	H
ATOM	19180	HCN	LEU	B	518	16.695	34.995	143.438	0.00	0.00	H
ATOM	19181	HCN	LEU	B	518	16.756	36.737	143.681	0.00	0.00	H
ATOM	19182	HCD1	LEU	B	518	17.213	35.357	141.002	0.00	0.00	H
ATOM	19183	HCD1	LEU	B	518	17.415	37.106	141.185	0.00	0.00	H
ATOM	19184	HCD1	LEU	B	518	18.726	36.119	140.509	0.00	0.00	H
ATOM	19185	HCD2	LEU	B	518	20.059	36.822	143.936	0.00	0.00	H
ATOM	19186	HCD2	LEU	B	518	20.301	37.081	142.218	0.00	0.00	H
ATOM	19187	HCD2	LEU	B	518	19.054	38.006	143.082	0.00	0.00	H
ATOM	19188	HCG	LEU	B	518	19.044	34.974	142.663	0.00	0.00	H
ATOM	19189	N	CYS	B	519	16.639	34.453	147.117	0.00	0.00	N
ATOM	19190	CA	CYS	B	519	15.704	34.387	148.216	0.00	0.00	C
ATOM	19191	C	CYS	B	519	16.112	35.335	149.295	0.00	0.00	C
ATOM	19192	O	CYS	B	519	16.403	34.950	150.453	0.00	0.00	O
ATOM	19193	CB	CYS	B	519	15.534	32.912	148.686	0.00	0.00	C
ATOM	19194	SG	CYS	B	519	14.633	31.919	147.476	0.00	0.00	S
ATOM	19195	HN	CYS	B	519	17.326	33.780	147.124	0.00	0.00	H
ATOM	19196	HCA	CYS	B	519	14.720	34.722	147.882	0.00	0.00	H
ATOM	19197	HCN	CYS	B	519	16.502	32.455	148.881	0.00	0.00	H
ATOM	19198	HCN	CYS	B	519	14.967	32.865	149.616	0.00	0.00	H

ATOM	19199	HSG	CYS	B	519	15.482	32.262	146.470	0.00	0.00	H
ATOM	19200	N	ILE	B	520	16.159	36.640	148.949	0.00	0.00	N
ATOM	19201	CA	ILE	B	520	16.513	37.784	149.744	0.00	0.00	C
ATOM	19202	C	ILE	B	520	15.410	38.808	149.758	0.00	0.00	C
ATOM	19203	O	ILE	B	520	14.725	38.913	148.709	0.00	0.00	O
ATOM	19204	CB	ILE	B	520	17.886	38.370	149.246	0.00	0.00	C
ATOM	19205	CG1	ILE	B	520	17.810	39.078	147.851	0.00	0.00	C
ATOM	19206	CG2	ILE	B	520	19.001	37.278	149.266	0.00	0.00	C
ATOM	19207	CD1	ILE	B	520	19.134	39.710	147.358	0.00	0.00	C
ATOM	19208	HN	ILE	B	520	15.972	36.768	148.021	0.00	0.00	H
ATOM	19209	HCA	ILE	B	520	16.672	37.442	150.765	0.00	0.00	H
ATOM	19210	HCB	ILE	B	520	18.177	39.135	149.971	0.00	0.00	H
ATOM	19211	HCD1	ILE	B	520	19.530	40.400	148.107	0.00	0.00	H
ATOM	19212	HCD1	ILE	B	520	19.881	38.943	147.148	0.00	0.00	H
ATOM	19213	HCD1	ILE	B	520	18.952	40.263	146.435	0.00	0.00	H
ATOM	19214	HCG1	ILE	B	520	17.461	38.370	147.097	0.00	0.00	H
ATOM	19215	HCG1	ILE	B	520	17.078	39.888	147.900	0.00	0.00	H
ATOM	19216	HCG2	ILE	B	520	18.930	36.654	150.156	0.00	0.00	H
ATOM	19217	HCG2	ILE	B	520	18.917	36.627	148.395	0.00	0.00	H
ATOM	19218	HCG2	ILE	B	520	19.991	37.739	149.261	0.00	0.00	H
ATOM	19219	N	PRO	B	521	15.100	39.641	150.805	0.00	0.00	N
ATOM	19220	CA	PRO	B	521	14.190	40.765	150.686	0.00	0.00	C
ATOM	19221	C	PRO	B	521	14.562	41.805	149.728	0.00	0.00	C
ATOM	19222	O	PRO	B	521	15.738	41.924	149.405	0.00	0.00	O
ATOM	19223	CB	PRO	B	521	14.118	41.380	152.112	0.00	0.00	C
ATOM	19224	CG	PRO	B	521	14.619	40.256	153.021	0.00	0.00	C
ATOM	19225	CD	PRO	B	521	15.631	39.522	152.128	0.00	0.00	C
ATOM	19226	HCA	PRO	B	521	13.211	40.363	150.408	0.00	0.00	H
ATOM	19227	HCB	PRO	B	521	14.789	42.240	152.222	0.00	0.00	H
ATOM	19228	HCB	PRO	B	521	13.107	41.698	152.375	0.00	0.00	H
ATOM	19229	HCD	PRO	B	521	16.613	40.000	152.160	0.00	0.00	H
ATOM	19230	HCD	PRO	B	521	15.713	38.493	152.477	0.00	0.00	H
ATOM	19231	HCG	PRO	B	521	15.078	40.644	153.933	0.00	0.00	H
ATOM	19232	HCG	PRO	B	521	13.794	39.589	153.289	0.00	0.00	H
ATOM	19233	N	PHE	B	522	13.651	42.670	149.307	0.00	0.00	N
ATOM	19234	CA	PHE	B	522	13.916	43.853	148.528	0.00	0.00	C
ATOM	19235	C	PHE	B	522	12.917	44.954	148.685	0.00	0.00	C
ATOM	19236	O	PHE	B	522	11.685	44.701	148.762	0.00	0.00	O
ATOM	19237	CB	PHE	B	522	14.239	43.538	147.033	0.00	0.00	C
ATOM	19238	CG	PHE	B	522	13.095	43.098	146.194	0.00	0.00	C
ATOM	19239	CD1	PHE	B	522	12.175	44.049	145.695	0.00	0.00	C
ATOM	19240	CD2	PHE	B	522	12.924	41.738	145.844	0.00	0.00	C
ATOM	19241	CE1	PHE	B	522	11.100	43.651	144.883	0.00	0.00	C
ATOM	19242	CE2	PHE	B	522	11.857	41.339	145.018	0.00	0.00	C
ATOM	19243	CZ	PHE	B	522	10.943	42.297	144.544	0.00	0.00	C
ATOM	19244	HN	PHE	B	522	12.752	42.488	149.577	0.00	0.00	H
ATOM	19245	HCA	PHE	B	522	14.837	44.252	148.953	0.00	0.00	H
ATOM	19246	HCB	PHE	B	522	14.679	44.427	146.571	0.00	0.00	H
ATOM	19247	HCB	PHE	B	522	15.018	42.773	147.000	0.00	0.00	H
ATOM	19248	HCD1	PHE	B	522	12.284	45.041	145.918	0.00	0.00	H
ATOM	19249	HCD2	PHE	B	522	13.578	41.029	146.187	0.00	0.00	H
ATOM	19250	HCE1	PHE	B	522	10.439	44.349	144.539	0.00	0.00	H
ATOM	19251	HCE2	PHE	B	522	11.747	40.355	144.764	0.00	0.00	H
ATOM	19252	HCZ	PHE	B	522	10.167	42.012	143.951	0.00	0.00	H
ATOM	19253	N	VAL	B	523	13.372	46.236	148.671	0.00	0.00	N
ATOM	19254	CA	VAL	B	523	12.550	47.428	148.649	0.00	0.00	C
ATOM	19255	C	VAL	B	523	12.702	48.142	147.354	0.00	0.00	C
ATOM	19256	O	VAL	B	523	13.844	48.520	147.011	0.00	0.00	O
ATOM	19257	CB	VAL	B	523	12.839	48.449	149.811	0.00	0.00	C
ATOM	19258	CG1	VAL	B	523	11.649	49.442	149.988	0.00	0.00	C
ATOM	19259	CG2	VAL	B	523	13.147	47.769	151.164	0.00	0.00	C
ATOM	19260	HN	VAL	B	523	14.333	46.327	148.671	0.00	0.00	H
ATOM	19261	HCA	VAL	B	523	11.501	47.133	148.748	0.00	0.00	H
ATOM	19262	HCB	VAL	B	523	13.730	49.039	149.566	0.00	0.00	H
ATOM	19263	HCG1	VAL	B	523	11.474	50.004	149.070	0.00	0.00	H
ATOM	19264	HCG1	VAL	B	523	10.733	48.907	150.243	0.00	0.00	H
ATOM	19265	HCG1	VAL	B	523	11.854	50.163	150.776	0.00	0.00	H
ATOM	19266	HCG2	VAL	B	523	14.041	47.155	151.069	0.00	0.00	H
ATOM	19267	HCG2	VAL	B	523	13.329	48.515	151.939	0.00	0.00	H
ATOM	19268	HCG2	VAL	B	523	12.314	47.144	151.466	0.00	0.00	H
ATOM	19269	N	VAL	B	524	11.616	48.474	146.620	0.00	0.00	N
ATOM	19270	CA	VAL	B	524	11.554	49.452	145.569	0.00	0.00	C
ATOM	19271	C	VAL	B	524	11.083	50.741	146.165	0.00	0.00	C
ATOM	19272	O	VAL	B	524	9.962	50.816	146.731	0.00	0.00	O
ATOM	19273	CB	VAL	B	524	10.679	48.953	144.368	0.00	0.00	C
ATOM	19274	CG1	VAL	B	524	10.466	50.045	143.279	0.00	0.00	C
ATOM	19275	CG2	VAL	B	524	11.281	47.682	143.704	0.00	0.00	C
ATOM	19276	HN	VAL	B	524	10.802	48.048	146.865	0.00	0.00	H
ATOM	19277	HCA	VAL	B	524	12.552	49.607	145.160	0.00	0.00	H
ATOM	19278	HCB	VAL	B	524	9.697	48.676	144.752	0.00	0.00	H

ATOM	19279	HCG1	VAL	B	524	11.426	50.404	142.901	0.00	0.00	H
ATOM	19280	HCG1	VAL	B	524	9.887	49.651	142.442	0.00	0.00	H
ATOM	19281	HCG1	VAL	B	524	9.917	50.897	143.686	0.00	0.00	H
ATOM	19282	HCG2	VAL	B	524	12.251	47.903	143.253	0.00	0.00	H
ATOM	19283	HCG2	VAL	B	524	11.414	46.892	144.442	0.00	0.00	H
ATOM	19284	HCG2	VAL	B	524	10.616	47.303	142.926	0.00	0.00	H
ATOM	19285	N	ILE	B	525	11.882	51.830	146.082	0.00	0.00	N
ATOM	19286	CA	ILE	B	525	11.548	53.186	146.434	0.00	0.00	C
ATOM	19287	C	ILE	B	525	11.159	53.907	145.173	0.00	0.00	C
ATOM	19288	O	ILE	B	525	12.009	53.927	144.243	0.00	0.00	O
ATOM	19289	CB	ILE	B	525	12.721	53.866	147.230	0.00	0.00	C
ATOM	19290	CG1	ILE	B	525	12.876	53.233	148.653	0.00	0.00	C
ATOM	19291	CG2	ILE	B	525	12.565	55.416	147.314	0.00	0.00	C
ATOM	19292	CD1	ILE	B	525	14.185	53.605	149.388	0.00	0.00	C
ATOM	19293	HN	ILE	B	525	12.754	51.665	145.727	0.00	0.00	H
ATOM	19294	HCA	ILE	B	525	10.703	53.163	147.121	0.00	0.00	H
ATOM	19295	HCB	ILE	B	525	13.646	53.669	146.693	0.00	0.00	H
ATOM	19296	HCD1	ILE	B	525	15.049	53.386	148.763	0.00	0.00	H
ATOM	19297	HCD1	ILE	B	525	14.199	54.660	149.662	0.00	0.00	H
ATOM	19298	HCD1	ILE	B	525	14.277	53.019	150.300	0.00	0.00	H
ATOM	19299	HCG1	ILE	B	525	12.025	53.516	149.279	0.00	0.00	H
ATOM	19300	HCG1	ILE	B	525	12.865	52.144	148.561	0.00	0.00	H
ATOM	19301	HCG2	ILE	B	525	12.560	55.865	146.320	0.00	0.00	H
ATOM	19302	HCG2	ILE	B	525	11.631	55.672	147.810	0.00	0.00	H
ATOM	19303	HCG2	ILE	B	525	13.390	55.872	147.861	0.00	0.00	H
ATOM	19304	N	PRO	B	526	9.950	54.532	144.983	0.00	0.00	N
ATOM	19305	CA	PRO	B	526	9.547	55.166	143.754	0.00	0.00	C
ATOM	19306	C	PRO	B	526	10.280	56.400	143.477	0.00	0.00	C
ATOM	19307	O	PRO	B	526	10.130	57.388	144.190	0.00	0.00	O
ATOM	19308	CB	PRO	B	526	8.020	55.397	143.911	0.00	0.00	C
ATOM	19309	CG	PRO	B	526	7.840	55.535	145.423	0.00	0.00	C
ATOM	19310	CD	PRO	B	526	8.908	54.575	145.959	0.00	0.00	C
ATOM	19311	HCA	PRO	B	526	9.689	54.454	142.934	0.00	0.00	H
ATOM	19312	HCB	PRO	B	526	7.653	56.274	143.373	0.00	0.00	H
ATOM	19313	HCB	PRO	B	526	7.462	54.522	143.572	0.00	0.00	H
ATOM	19314	HCD	PRO	B	526	9.259	54.926	146.931	0.00	0.00	H
ATOM	19315	HCD	PRO	B	526	8.493	53.568	146.052	0.00	0.00	H
ATOM	19316	HCG	PRO	B	526	8.044	56.561	145.743	0.00	0.00	H
ATOM	19317	HCG	PRO	B	526	6.841	55.247	145.751	0.00	0.00	H
ATOM	19318	N	ALA	B	527	11.103	56.436	142.447	0.00	0.00	N
ATOM	19319	CA	ALA	B	527	11.831	57.571	141.965	0.00	0.00	C
ATOM	19320	C	ALA	B	527	11.655	57.721	140.501	0.00	0.00	C
ATOM	19321	O	ALA	B	527	11.938	56.757	139.754	0.00	0.00	O
ATOM	19322	CB	ALA	B	527	13.306	57.395	142.375	0.00	0.00	C
ATOM	19323	HN	ALA	B	527	11.251	55.605	141.996	0.00	0.00	H
ATOM	19324	HCA	ALA	B	527	11.464	58.482	142.434	0.00	0.00	H
ATOM	19325	HCB	ALA	B	527	13.385	57.307	143.459	0.00	0.00	H
ATOM	19326	HCB	ALA	B	527	13.713	56.493	141.924	0.00	0.00	H
ATOM	19327	HCB	ALA	B	527	13.896	58.253	142.054	0.00	0.00	H
ATOM	19328	N	THR	B	528	11.211	58.900	140.007	0.00	0.00	N
ATOM	19329	CA	THR	B	528	10.857	59.254	138.659	0.00	0.00	C
ATOM	19330	C	THR	B	528	9.864	60.370	138.666	0.00	0.00	C
ATOM	19331	O	THR	B	528	8.638	60.164	138.836	0.00	0.00	O
ATOM	19332	CB	THR	B	528	10.452	58.116	137.660	0.00	0.00	C
ATOM	19333	CG2	THR	B	528	9.251	57.251	138.087	0.00	0.00	C
ATOM	19334	OG1	THR	B	528	10.072	58.643	136.399	0.00	0.00	O
ATOM	19335	HN	THR	B	528	11.236	59.618	140.638	0.00	0.00	H
ATOM	19336	HCA	THR	B	528	11.785	59.654	138.245	0.00	0.00	H
ATOM	19337	HCB	THR	B	528	11.311	57.462	137.483	0.00	0.00	H
ATOM	19338	HCG2	THR	B	528	8.312	57.794	137.977	0.00	0.00	H
ATOM	19339	HCG2	THR	B	528	9.201	56.360	137.457	0.00	0.00	H
ATOM	19340	HCG2	THR	B	528	9.363	56.945	139.123	0.00	0.00	H
ATOM	19341	HOG1	THR	B	528	10.867	58.734	135.857	0.00	0.00	H
ATOM	19342	N	VAL	B	529	10.314	61.616	138.389	0.00	0.00	N
ATOM	19343	CA	VAL	B	529	9.662	62.704	137.687	0.00	0.00	C
ATOM	19344	C	VAL	B	529	8.327	62.388	137.078	0.00	0.00	C
ATOM	19345	O	VAL	B	529	7.329	63.104	137.323	0.00	0.00	O
ATOM	19346	CB	VAL	B	529	10.713	63.131	136.594	0.00	0.00	C
ATOM	19347	CG1	VAL	B	529	10.155	63.937	135.389	0.00	0.00	C
ATOM	19348	CG2	VAL	B	529	11.977	63.800	137.219	0.00	0.00	C
ATOM	19349	HN	VAL	B	529	11.250	61.757	138.585	0.00	0.00	H
ATOM	19350	HCA	VAL	B	529	9.537	63.535	138.374	0.00	0.00	H
ATOM	19351	HCB	VAL	B	529	11.052	62.211	136.132	0.00	0.00	H
ATOM	19352	HCG1	VAL	B	529	9.578	63.286	134.730	0.00	0.00	H
ATOM	19353	HCG1	VAL	B	529	9.489	64.716	135.728	0.00	0.00	H
ATOM	19354	HCG1	VAL	B	529	10.952	64.384	134.792	0.00	0.00	H
ATOM	19355	HCG2	VAL	B	529	11.704	64.588	137.917	0.00	0.00	H
ATOM	19356	HCG2	VAL	B	529	12.572	63.069	137.768	0.00	0.00	H
ATOM	19357	HCG2	VAL	B	529	12.623	64.229	136.454	0.00	0.00	H
TER	19358		VAL	B	529						

ATOM	19359	N	ASN	B	531	6.013	60.123	137.560	0.00	0.00		N
ATOM	19360	CA	ASN	B	531	4.947	59.654	138.410	0.00	0.00		C
ATOM	19361	C	ASN	B	531	4.182	58.515	137.828	0.00	0.00		C
ATOM	19362	O	ASN	B	531	2.930	58.529	137.795	0.00	0.00		O
ATOM	19363	CB	ASN	B	531	4.101	60.866	138.909	0.00	0.00		C
ATOM	19364	CG	ASN	B	531	3.283	60.610	140.108	0.00	0.00		C
ATOM	19365	ND2	ASN	B	531	3.840	60.331	141.290	0.00	0.00		N
ATOM	19366	OD1	ASN	B	531	2.037	60.685	140.081	0.00	0.00		O
ATOM	19367	HN	ASN	B	531	6.893	60.121	137.940	0.00	0.00		H
ATOM	19368	HND2	ASN	B	531	4.794	60.238	141.354	0.00	0.00		H
ATOM	19369	HND2	ASN	B	531	3.245	60.256	142.043	0.00	0.00		H
ATOM	19370	HCA	ASN	B	531	5.438	59.213	139.274	0.00	0.00		H
ATOM	19371	HCB	ASN	B	531	4.760	61.704	139.147	0.00	0.00		H
ATOM	19372	HCB	ASN	B	531	3.447	61.187	138.098	0.00	0.00		H
ATOM	19373	N	ASN	B	532	4.861	57.441	137.357	0.00	0.00		N
ATOM	19374	CA	ASN	B	532	4.286	56.268	136.756	0.00	0.00		C
ATOM	19375	C	ASN	B	532	4.613	55.011	137.488	0.00	0.00		C
ATOM	19376	O	ASN	B	532	4.435	53.926	136.888	0.00	0.00		O
ATOM	19377	CB	ASN	B	532	4.700	56.268	135.250	0.00	0.00		C
ATOM	19378	CG	ASN	B	532	6.072	55.814	134.954	0.00	0.00		C
ATOM	19379	ND2	ASN	B	532	6.308	54.909	133.999	0.00	0.00		N
ATOM	19380	OD1	ASN	B	532	7.055	56.271	135.572	0.00	0.00		O
ATOM	19381	HN	ASN	B	532	5.829	57.480	137.384	0.00	0.00		H
ATOM	19382	HND2	ASN	B	532	5.571	54.511	133.538	0.00	0.00		H
ATOM	19383	HND2	ASN	B	532	7.214	54.662	133.778	0.00	0.00		H
ATOM	19384	HCA	ASN	B	532	3.194	56.328	136.774	0.00	0.00		H
ATOM	19385	HCB	ASN	B	532	3.998	55.637	134.703	0.00	0.00		H
ATOM	19386	HCB	ASN	B	532	4.594	57.278	134.844	0.00	0.00		H
ATOM	19387	N	VAL	B	533	5.042	54.994	138.776	0.00	0.00		N
ATOM	19388	CA	VAL	B	533	5.370	53.805	139.529	0.00	0.00		C
ATOM	19389	C	VAL	B	533	4.140	53.254	140.178	0.00	0.00		C
ATOM	19390	O	VAL	B	533	3.565	53.990	141.022	0.00	0.00		O
ATOM	19391	CB	VAL	B	533	6.508	54.030	140.581	0.00	0.00		C
ATOM	19392	CG1	VAL	B	533	6.915	52.703	141.294	0.00	0.00		C
ATOM	19393	CG2	VAL	B	533	7.756	54.648	139.913	0.00	0.00		C
ATOM	19394	HN	VAL	B	533	5.109	55.847	139.232	0.00	0.00		H
ATOM	19395	HCA	VAL	B	533	5.793	53.082	138.831	0.00	0.00		H
ATOM	19396	HCB	VAL	B	533	6.156	54.737	141.340	0.00	0.00		H
ATOM	19397	HCG1	VAL	B	533	7.151	51.926	140.565	0.00	0.00		H
ATOM	19398	HCG1	VAL	B	533	7.793	52.843	141.926	0.00	0.00		H
ATOM	19399	HCG1	VAL	B	533	6.102	52.347	141.930	0.00	0.00		H
ATOM	19400	HCG2	VAL	B	533	8.120	53.992	139.121	0.00	0.00		H
ATOM	19401	HCG2	VAL	B	533	7.494	55.609	139.478	0.00	0.00		H
ATOM	19402	HCG2	VAL	B	533	8.554	54.808	140.640	0.00	0.00		H
ATOM	19403	N	PRO	B	534	3.635	52.002	139.938	0.00	0.00		N
ATOM	19404	CA	PRO	B	534	2.536	51.443	140.683	0.00	0.00		C
ATOM	19405	C	PRO	B	534	2.747	51.376	142.126	0.00	0.00		C
ATOM	19406	O	PRO	B	534	3.718	50.771	142.560	0.00	0.00		O
ATOM	19407	CB	PRO	B	534	2.287	50.041	140.066	0.00	0.00		C
ATOM	19408	CG	PRO	B	534	2.994	50.104	138.710	0.00	0.00		C
ATOM	19409	CD	PRO	B	534	4.131	51.099	138.943	0.00	0.00		C
ATOM	19410	HCA	PRO	B	534	1.663	52.066	140.480	0.00	0.00		H
ATOM	19411	HCB	PRO	B	534	2.743	49.244	140.661	0.00	0.00		H
ATOM	19412	HCB	PRO	B	534	1.219	49.830	139.953	0.00	0.00		H
ATOM	19413	HCD	PRO	B	534	5.023	50.587	139.317	0.00	0.00		H
ATOM	19414	HCD	PRO	B	534	4.358	51.581	137.991	0.00	0.00		H
ATOM	19415	HCG	PRO	B	534	3.393	49.135	138.410	0.00	0.00		H
ATOM	19416	HCG	PRO	B	534	2.310	50.479	137.941	0.00	0.00		H
ATOM	19417	N	GLY	B	535	1.880	51.951	142.940	0.00	0.00		N
ATOM	19418	CA	GLY	B	535	1.848	51.849	144.370	0.00	0.00		C
ATOM	19419	C	GLY	B	535	1.938	53.129	145.096	0.00	0.00		C
ATOM	19420	O	GLY	B	535	1.674	53.092	146.320	0.00	0.00		O
ATOM	19421	HN	GLY	B	535	1.175	52.467	142.521	0.00	0.00		H
ATOM	19422	HCA	GLY	B	535	0.887	51.395	144.617	0.00	0.00		H
ATOM	19423	HCA	GLY	B	535	2.628	51.189	144.760	0.00	0.00		H
ATOM	19424	N	SER	B	536	2.302	54.299	144.515	0.00	0.00		N
ATOM	19425	CA	SER	B	536	2.379	55.558	145.220	0.00	0.00		C
ATOM	19426	C	SER	B	536	1.643	56.669	144.581	0.00	0.00		C
ATOM	19427	O	SER	B	536	1.689	56.817	143.337	0.00	0.00		O
ATOM	19428	CB	SER	B	536	3.843	56.027	145.390	0.00	0.00		C
ATOM	19429	OG	SER	B	536	3.882	57.065	146.380	0.00	0.00		O
ATOM	19430	HN	SER	B	536	2.544	54.281	143.575	0.00	0.00		H
ATOM	19431	HCA	SER	B	536	1.978	55.447	146.230	0.00	0.00		H
ATOM	19432	HCB	SER	B	536	4.462	55.194	145.718	0.00	0.00		H
ATOM	19433	HCB	SER	B	536	4.252	56.391	144.442	0.00	0.00		H
ATOM	19434	HOG	SER	B	536	4.578	57.670	146.089	0.00	0.00		H
ATOM	19435	N	ASP	B	537	1.069	57.599	145.379	0.00	0.00		N
ATOM	19436	CA	ASP	B	537	0.707	58.920	144.967	0.00	0.00		C
ATOM	19437	C	ASP	B	537	1.855	59.689	144.389	0.00	0.00		C
ATOM	19438	O	ASP	B	537	1.678	60.373	143.350	0.00	0.00		O

ATOM	19439	CB	ASP	B	537	0.112	59.725	146.164	0.00	0.00		C
ATOM	19440	CG	ASP	B	537	-1.127	59.224	146.779	0.00	0.00		C
ATOM	19441	OD1	ASP	B	537	-1.601	58.100	146.522	0.00	0.00		O
ATOM	19442	OD2	ASP	B	537	-1.742	59.934	147.604	0.00	0.00		O
ATOM	19443	HN	ASP	B	537	0.903	57.340	146.287	0.00	0.00		H
ATOM	19444	HCA	ASP	B	537	-0.063	58.814	144.205	0.00	0.00		H
ATOM	19445	HCN	ASP	B	537	0.851	59.793	146.961	0.00	0.00		H
ATOM	19446	HCN	ASP	B	537	-0.106	60.739	145.820	0.00	0.00		H
ATOM	19447	N	PHE	B	538	3.065	59.665	145.004	0.00	0.00		N
ATOM	19448	CA	PHE	B	538	4.146	60.602	144.810	0.00	0.00		C
ATOM	19449	C	PHE	B	538	5.443	59.890	144.653	0.00	0.00		C
ATOM	19450	O	PHE	B	538	5.758	58.954	145.421	0.00	0.00		O
ATOM	19451	CB	PHE	B	538	4.207	61.604	146.003	0.00	0.00		C
ATOM	19452	CG	PHE	B	538	3.094	62.597	146.001	0.00	0.00		C
ATOM	19453	CD1	PHE	B	538	3.049	63.635	145.038	0.00	0.00		C
ATOM	19454	CD2	PHE	B	538	2.064	62.536	146.965	0.00	0.00		C
ATOM	19455	CE1	PHE	B	538	2.002	64.577	145.044	0.00	0.00		C
ATOM	19456	CE2	PHE	B	538	1.012	63.470	146.970	0.00	0.00		C
ATOM	19457	CZ	PHE	B	538	0.981	64.493	146.007	0.00	0.00		C
ATOM	19458	HN	PHE	B	538	3.218	58.941	145.621	0.00	0.00		H
ATOM	19459	HCA	PHE	B	538	3.983	61.189	143.902	0.00	0.00		H
ATOM	19460	HCN	PHE	B	538	4.217	61.036	146.939	0.00	0.00		H
ATOM	19461	HCN	PHE	B	538	5.146	62.165	145.973	0.00	0.00		H
ATOM	19462	HCD1	PHE	B	538	3.783	63.714	144.330	0.00	0.00		H
ATOM	19463	HCD2	PHE	B	538	2.069	61.802	147.669	0.00	0.00		H
ATOM	19464	HCE1	PHE	B	538	1.982	65.327	144.349	0.00	0.00		H
ATOM	19465	HCE2	PHE	B	538	0.272	63.404	147.673	0.00	0.00		H
ATOM	19466	HCZ	PHE	B	538	0.218	65.173	146.009	0.00	0.00		H
ATOM	19467	N	SER	B	539	6.297	60.264	143.681	0.00	0.00		N
ATOM	19468	CA	SER	B	539	7.558	59.661	143.349	0.00	0.00		C
ATOM	19469	C	SER	B	539	8.663	60.647	143.450	0.00	0.00		C
ATOM	19470	O	SER	B	539	8.490	61.827	143.062	0.00	0.00		O
ATOM	19471	CB	SER	B	539	7.431	59.094	141.916	0.00	0.00		C
ATOM	19472	OG	SER	B	539	6.819	60.056	141.059	0.00	0.00		O
ATOM	19473	HN	SER	B	539	6.023	61.010	143.126	0.00	0.00		H
ATOM	19474	HCA	SER	B	539	7.788	58.825	144.015	0.00	0.00		H
ATOM	19475	HCN	SER	B	539	8.411	58.803	141.526	0.00	0.00		H
ATOM	19476	HCN	SER	B	539	6.795	58.206	141.927	0.00	0.00		H
ATOM	19477	HOG	SER	B	539	7.414	60.117	140.295	0.00	0.00		H
ATOM	19478	N	VAL	B	540	9.878	60.264	143.912	0.00	0.00		N
ATOM	19479	CA	VAL	B	540	11.001	61.151	144.107	0.00	0.00		C
ATOM	19480	C	VAL	B	540	11.365	61.784	142.808	0.00	0.00		C
ATOM	19481	O	VAL	B	540	11.660	61.051	141.836	0.00	0.00		O
ATOM	19482	CB	VAL	B	540	12.199	60.399	144.785	0.00	0.00		C
ATOM	19483	CG1	VAL	B	540	13.489	61.261	144.859	0.00	0.00		C
ATOM	19484	CG2	VAL	B	540	11.831	59.877	146.203	0.00	0.00		C
ATOM	19485	HN	VAL	B	540	9.993	59.328	144.081	0.00	0.00		H
ATOM	19486	HCA	VAL	B	540	10.685	61.941	144.798	0.00	0.00		H
ATOM	19487	HCN	VAL	B	540	12.448	59.526	144.186	0.00	0.00		H
ATOM	19488	HCG1	VAL	B	540	13.871	61.475	143.859	0.00	0.00		H
ATOM	19489	HCG1	VAL	B	540	13.282	62.209	145.359	0.00	0.00		H
ATOM	19490	HCG1	VAL	B	540	14.274	60.732	145.403	0.00	0.00		H
ATOM	19491	HCG2	VAL	B	540	10.943	59.244	146.168	0.00	0.00		H
ATOM	19492	HCG2	VAL	B	540	12.648	59.280	146.612	0.00	0.00		H
ATOM	19493	HCG2	VAL	B	540	11.634	60.712	146.877	0.00	0.00		H
ATOM	19494	N	GLY	B	541	11.289	63.123	142.651	0.00	0.00		N
ATOM	19495	CA	GLY	B	541	11.544	63.876	141.462	0.00	0.00		C
ATOM	19496	C	GLY	B	541	10.320	64.497	140.922	0.00	0.00		C
ATOM	19497	O	GLY	B	541	10.454	65.468	140.137	0.00	0.00		O
ATOM	19498	HN	GLY	B	541	10.986	63.640	143.398	0.00	0.00		H
ATOM	19499	HCA	GLY	B	541	12.254	64.662	141.727	0.00	0.00		H
ATOM	19500	HCA	GLY	B	541	11.992	63.279	140.671	0.00	0.00		H
ATOM	19501	N	ALA	B	542	9.088	64.012	141.221	0.00	0.00		N
ATOM	19502	CA	ALA	B	542	7.848	64.521	140.714	0.00	0.00		C
ATOM	19503	C	ALA	B	542	7.635	65.943	141.062	0.00	0.00		C
ATOM	19504	O	ALA	B	542	7.243	66.720	140.159	0.00	0.00		O
ATOM	19505	CB	ALA	B	542	6.691	63.635	141.230	0.00	0.00		C
ATOM	19506	HN	ALA	B	542	9.011	63.278	141.836	0.00	0.00		H
ATOM	19507	HCA	ALA	B	542	7.847	64.433	139.626	0.00	0.00		H
ATOM	19508	HCN	ALA	B	542	6.643	63.650	142.320	0.00	0.00		H
ATOM	19509	HCN	ALA	B	542	5.738	63.983	140.835	0.00	0.00		H
ATOM	19510	HCN	ALA	B	542	6.839	62.610	140.893	0.00	0.00		H
ATOM	19511	N	ASP	B	543	7.915	66.404	142.304	0.00	0.00		N
ATOM	19512	CA	ASP	B	543	7.756	67.768	142.701	0.00	0.00		C
ATOM	19513	C	ASP	B	543	8.734	68.631	141.988	0.00	0.00		C
ATOM	19514	O	ASP	B	543	8.293	69.614	141.356	0.00	0.00		O
ATOM	19515	CB	ASP	B	543	7.843	67.885	144.243	0.00	0.00		C
ATOM	19516	CG	ASP	B	543	7.643	69.272	144.683	0.00	0.00		C
ATOM	19517	OD1	ASP	B	543	6.576	69.641	145.215	0.00	0.00		O
ATOM	19518	OD2	ASP	B	543	8.544	70.116	144.483	0.00	0.00		O

ATOM	19519	HN	ASP	B	543	8.315	65.791	142.943	0.00	0.00		H
ATOM	19520	HCA	ASP	B	543	6.740	68.079	142.426	0.00	0.00		H
ATOM	19521	HCB	ASP	B	543	7.068	67.255	144.686	0.00	0.00		H
ATOM	19522	HCB	ASP	B	543	8.811	67.536	144.605	0.00	0.00		H
ATOM	19523	N	THR	B	544	10.061	68.364	141.976	0.00	0.00		N
ATOM	19524	CA	THR	B	544	11.069	69.095	141.259	0.00	0.00		C
ATOM	19525	C	THR	B	544	10.717	69.234	139.829	0.00	0.00		C
ATOM	19526	O	THR	B	544	10.703	70.387	139.341	0.00	0.00		O
ATOM	19527	CB	THR	B	544	12.499	68.498	141.458	0.00	0.00		C
ATOM	19528	CG2	THR	B	544	13.618	69.336	140.791	0.00	0.00		C
ATOM	19529	OG1	THR	B	544	12.836	68.398	142.847	0.00	0.00		O
ATOM	19530	HN	THR	B	544	10.356	67.636	142.514	0.00	0.00		H
ATOM	19531	HCA	THR	B	544	11.075	70.096	141.680	0.00	0.00		H
ATOM	19532	HCB	THR	B	544	12.519	67.490	141.033	0.00	0.00		H
ATOM	19533	HCG2	THR	B	544	13.497	69.353	139.707	0.00	0.00		H
ATOM	19534	HCG2	THR	B	544	13.602	70.362	141.164	0.00	0.00		H
ATOM	19535	HCG2	THR	B	544	14.595	68.907	141.012	0.00	0.00		H
ATOM	19536	HOG1	THR	B	544	12.235	67.701	143.165	0.00	0.00		H
ATOM	19537	N	ALA	B	545	10.350	68.173	139.075	0.00	0.00		N
ATOM	19538	CA	ALA	B	545	9.878	68.277	137.727	0.00	0.00		C
ATOM	19539	C	ALA	B	545	8.659	69.109	137.580	0.00	0.00		C
ATOM	19540	O	ALA	B	545	8.655	70.012	136.716	0.00	0.00		O
ATOM	19541	CB	ALA	B	545	9.608	66.874	137.176	0.00	0.00		C
ATOM	19542	HN	ALA	B	545	10.382	67.298	139.470	0.00	0.00		H
ATOM	19543	HCA	ALA	B	545	10.681	68.707	137.119	0.00	0.00		H
ATOM	19544	HCB	ALA	B	545	8.933	66.314	137.828	0.00	0.00		H
ATOM	19545	HCB	ALA	B	545	9.169	66.946	136.178	0.00	0.00		H
ATOM	19546	HCB	ALA	B	545	10.554	66.347	137.098	0.00	0.00		H
ATOM	19547	N	LEU	B	546	7.556	68.923	138.336	0.00	0.00		N
ATOM	19548	CA	LEU	B	546	6.384	69.746	138.282	0.00	0.00		C
ATOM	19549	C	LEU	B	546	6.696	71.191	138.497	0.00	0.00		C
ATOM	19550	O	LEU	B	546	6.318	72.020	137.639	0.00	0.00		O
ATOM	19551	CB	LEU	B	546	5.362	69.161	139.296	0.00	0.00		C
ATOM	19552	CG	LEU	B	546	4.068	69.993	139.498	0.00	0.00		C
ATOM	19553	CD1	LEU	B	546	3.312	70.295	138.179	0.00	0.00		C
ATOM	19554	CD2	LEU	B	546	3.145	69.314	140.541	0.00	0.00		C
ATOM	19555	HN	LEU	B	546	7.537	68.189	138.951	0.00	0.00		H
ATOM	19556	HCA	LEU	B	546	5.956	69.627	137.281	0.00	0.00		H
ATOM	19557	HCB	LEU	B	546	5.087	68.152	138.972	0.00	0.00		H
ATOM	19558	HCB	LEU	B	546	5.854	69.069	140.268	0.00	0.00		H
ATOM	19559	HCD1	LEU	B	546	3.127	69.374	137.628	0.00	0.00		H
ATOM	19560	HCD1	LEU	B	546	2.366	70.793	138.391	0.00	0.00		H
ATOM	19561	HCD1	LEU	B	546	3.890	70.964	137.541	0.00	0.00		H
ATOM	19562	HCD2	LEU	B	546	2.801	68.344	140.175	0.00	0.00		H
ATOM	19563	HCD2	LEU	B	546	3.677	69.159	141.482	0.00	0.00		H
ATOM	19564	HCD2	LEU	B	546	2.281	69.949	140.746	0.00	0.00		H
ATOM	19565	HCG	LEU	B	546	4.377	70.943	139.921	0.00	0.00		H
ATOM	19566	N	ASN	B	547	7.428	71.611	139.555	0.00	0.00		N
ATOM	19567	CA	ASN	B	547	7.882	72.951	139.810	0.00	0.00		C
ATOM	19568	C	ASN	B	547	8.707	73.481	138.680	0.00	0.00		C
ATOM	19569	O	ASN	B	547	8.439	74.615	138.221	0.00	0.00		O
ATOM	19570	CB	ASN	B	547	8.602	73.021	141.202	0.00	0.00		C
ATOM	19571	CG	ASN	B	547	7.682	73.331	142.319	0.00	0.00		C
ATOM	19572	ND2	ASN	B	547	7.458	72.576	143.404	0.00	0.00		N
ATOM	19573	OD1	ASN	B	547	7.044	74.405	142.294	0.00	0.00		O
ATOM	19574	HN	ASN	B	547	7.702	70.936	140.168	0.00	0.00		H
ATOM	19575	HND2	ASN	B	547	7.887	71.736	143.591	0.00	0.00		H
ATOM	19576	HND2	ASN	B	547	6.837	72.906	144.066	0.00	0.00		H
ATOM	19577	HCA	ASN	B	547	6.989	73.580	139.855	0.00	0.00		H
ATOM	19578	HCB	ASN	B	547	9.139	72.094	141.408	0.00	0.00		H
ATOM	19579	HCB	ASN	B	547	9.346	73.822	141.192	0.00	0.00		H
ATOM	19580	N	THR	B	548	9.684	72.750	138.091	0.00	0.00		N
ATOM	19581	CA	THR	B	548	10.394	73.102	136.883	0.00	0.00		C
ATOM	19582	C	THR	B	548	9.484	73.402	135.742	0.00	0.00		C
ATOM	19583	O	THR	B	548	9.562	74.530	135.202	0.00	0.00		O
ATOM	19584	CB	THR	B	548	11.392	71.970	136.496	0.00	0.00		C
ATOM	19585	CG2	THR	B	548	12.152	72.195	135.180	0.00	0.00		C
ATOM	19586	OG1	THR	B	548	12.373	71.799	137.516	0.00	0.00		O
ATOM	19587	HN	THR	B	548	9.941	71.936	138.518	0.00	0.00		H
ATOM	19588	HCA	THR	B	548	10.989	73.994	137.104	0.00	0.00		H
ATOM	19589	HCB	THR	B	548	10.860	71.026	136.390	0.00	0.00		H
ATOM	19590	HCG2	THR	B	548	11.474	72.207	134.325	0.00	0.00		H
ATOM	19591	HCG2	THR	B	548	12.691	73.141	135.222	0.00	0.00		H
ATOM	19592	HCG2	THR	B	548	12.850	71.370	135.046	0.00	0.00		H
ATOM	19593	HOG1	THR	B	548	11.870	71.341	138.201	0.00	0.00		H
ATOM	19594	N	ILE	B	549	8.602	72.480	135.281	0.00	0.00		N
ATOM	19595	CA	ILE	B	549	7.685	72.654	134.179	0.00	0.00		C
ATOM	19596	C	ILE	B	549	6.819	73.844	134.430	0.00	0.00		C
ATOM	19597	O	ILE	B	549	6.688	74.697	133.523	0.00	0.00		O
ATOM	19598	CB	ILE	B	549	6.858	71.350	133.880	0.00	0.00		C

ATOM	19599	CG1	ILE	B	549	7.735	70.093	133.540	0.00	0.00		C
ATOM	19600	CG2	ILE	B	549	5.782	71.563	132.772	0.00	0.00		C
ATOM	19601	CD1	ILE	B	549	8.378	70.043	132.132	0.00	0.00		C
ATOM	19602	HN	ILE	B	549	8.591	71.646	135.746	0.00	0.00		H
ATOM	19603	HCA	ILE	B	549	8.284	72.854	133.288	0.00	0.00		H
ATOM	19604	HCB	ILE	B	549	6.316	71.108	134.802	0.00	0.00		H
ATOM	19605	HCD1	ILE	B	549	7.616	69.916	131.362	0.00	0.00		H
ATOM	19606	HCD1	ILE	B	549	8.937	70.956	131.935	0.00	0.00		H
ATOM	19607	HCD1	ILE	B	549	9.065	69.196	132.069	0.00	0.00		H
ATOM	19608	HCG1	ILE	B	549	8.547	70.008	134.259	0.00	0.00		H
ATOM	19609	HCG1	ILE	B	549	7.119	69.197	133.656	0.00	0.00		H
ATOM	19610	HCG2	ILE	B	549	5.064	72.323	133.072	0.00	0.00		H
ATOM	19611	HCG2	ILE	B	549	6.242	71.895	131.840	0.00	0.00		H
ATOM	19612	HCG2	ILE	B	549	5.232	70.638	132.585	0.00	0.00		H
ATOM	19613	N	CYS	B	550	6.224	74.043	135.630	0.00	0.00		N
ATOM	19614	CA	CYS	B	550	5.474	75.201	136.025	0.00	0.00		C
ATOM	19615	C	CYS	B	550	6.251	76.467	135.882	0.00	0.00		C
ATOM	19616	O	CYS	B	550	5.770	77.357	135.151	0.00	0.00		O
ATOM	19617	CB	CYS	B	550	4.958	74.983	137.470	0.00	0.00		C
ATOM	19618	SG	CYS	B	550	3.844	76.287	138.027	0.00	0.00		S
ATOM	19619	HN	CYS	B	550	6.310	73.351	136.282	0.00	0.00		H
ATOM	19620	HCA	CYS	B	550	4.595	75.247	135.374	0.00	0.00		H
ATOM	19621	HCB	CYS	B	550	4.411	74.039	137.529	0.00	0.00		H
ATOM	19622	HCB	CYS	B	550	5.795	74.938	138.167	0.00	0.00		H
ATOM	19623	HSG	CYS	B	550	2.973	76.090	137.002	0.00	0.00		H
ATOM	19624	N	THR	B	551	7.465	76.666	136.452	0.00	0.00		N
ATOM	19625	CA	THR	B	551	8.309	77.829	136.258	0.00	0.00		C
ATOM	19626	C	THR	B	551	8.567	78.098	134.813	0.00	0.00		C
ATOM	19627	O	THR	B	551	8.374	79.245	134.326	0.00	0.00		O
ATOM	19628	CB	THR	B	551	9.643	77.643	137.046	0.00	0.00		C
ATOM	19629	CG2	THR	B	551	10.635	78.825	136.928	0.00	0.00		C
ATOM	19630	OG1	THR	B	551	9.354	77.491	138.434	0.00	0.00		O
ATOM	19631	HN	THR	B	551	7.789	75.979	137.034	0.00	0.00		H
ATOM	19632	HCA	THR	B	551	7.791	78.692	136.687	0.00	0.00		H
ATOM	19633	HCB	THR	B	551	10.143	76.732	136.702	0.00	0.00		H
ATOM	19634	HCG2	THR	B	551	10.971	78.946	135.897	0.00	0.00		H
ATOM	19635	HCG2	THR	B	551	10.160	79.752	137.256	0.00	0.00		H
ATOM	19636	HCG2	THR	B	551	11.513	78.643	137.549	0.00	0.00		H
ATOM	19637	HOG1	THR	B	551	10.214	77.278	138.855	0.00	0.00		H
ATOM	19638	N	THR	B	552	8.969	77.079	134.012	0.00	0.00		N
ATOM	19639	CA	THR	B	552	9.136	77.143	132.585	0.00	0.00		C
ATOM	19640	C	THR	B	552	7.930	77.731	131.940	0.00	0.00		C
ATOM	19641	O	THR	B	552	8.107	78.773	131.270	0.00	0.00		O
ATOM	19642	CB	THR	B	552	9.578	75.749	132.006	0.00	0.00		C
ATOM	19643	CG2	THR	B	552	9.041	75.331	130.613	0.00	0.00		C
ATOM	19644	OG1	THR	B	552	11.003	75.702	131.918	0.00	0.00		O
ATOM	19645	HN	THR	B	552	9.143	76.238	134.434	0.00	0.00		H
ATOM	19646	HCA	THR	B	552	9.967	77.838	132.426	0.00	0.00		H
ATOM	19647	HCB	THR	B	552	9.279	74.960	132.695	0.00	0.00		H
ATOM	19648	HCG2	THR	B	552	7.961	75.178	130.652	0.00	0.00		H
ATOM	19649	HCG2	THR	B	552	9.261	76.081	129.856	0.00	0.00		H
ATOM	19650	HCG2	THR	B	552	9.497	74.386	130.307	0.00	0.00		H
ATOM	19651	HOG1	THR	B	552	11.220	76.387	131.280	0.00	0.00		H
ATOM	19652	N	CYS	B	553	6.705	77.176	132.104	0.00	0.00		N
ATOM	19653	CA	CYS	B	553	5.444	77.623	131.569	0.00	0.00		C
ATOM	19654	C	CYS	B	553	4.981	78.963	132.034	0.00	0.00		C
ATOM	19655	O	CYS	B	553	4.410	79.701	131.200	0.00	0.00		O
ATOM	19656	CB	CYS	B	553	4.353	76.555	131.852	0.00	0.00		C
ATOM	19657	SG	CYS	B	553	4.633	75.012	130.951	0.00	0.00		S
ATOM	19658	HN	CYS	B	553	6.685	76.371	132.619	0.00	0.00		H
ATOM	19659	HCA	CYS	B	553	5.560	77.677	130.484	0.00	0.00		H
ATOM	19660	HCB	CYS	B	553	4.311	76.332	132.921	0.00	0.00		H
ATOM	19661	HCB	CYS	B	553	3.376	76.929	131.545	0.00	0.00		H
ATOM	19662	HSG	CYS	B	553	4.561	75.636	129.744	0.00	0.00		H
ATOM	19663	N	ASP	B	554	5.141	79.409	133.304	0.00	0.00		N
ATOM	19664	CA	ASP	B	554	4.918	80.760	133.766	0.00	0.00		C
ATOM	19665	C	ASP	B	554	5.608	81.734	132.887	0.00	0.00		C
ATOM	19666	O	ASP	B	554	4.983	82.698	132.387	0.00	0.00		O
ATOM	19667	CB	ASP	B	554	5.452	80.962	135.214	0.00	0.00		C
ATOM	19668	CG	ASP	B	554	4.778	80.198	136.262	0.00	0.00		C
ATOM	19669	OD1	ASP	B	554	3.676	79.638	136.086	0.00	0.00		O
ATOM	19670	OD2	ASP	B	554	5.291	80.157	137.399	0.00	0.00		O
ATOM	19671	HN	ASP	B	554	5.409	78.758	133.946	0.00	0.00		H
ATOM	19672	HCA	ASP	B	554	3.842	80.964	133.752	0.00	0.00		H
ATOM	19673	HCB	ASP	B	554	6.510	80.704	135.253	0.00	0.00		H
ATOM	19674	HCB	ASP	B	554	5.359	82.013	135.497	0.00	0.00		H
ATOM	19675	N	ARG	B	555	6.908	81.519	132.592	0.00	0.00		N
ATOM	19676	CA	ARG	B	555	7.638	82.241	131.594	0.00	0.00		C
ATOM	19677	C	ARG	B	555	7.066	82.023	130.220	0.00	0.00		C
ATOM	19678	O	ARG	B	555	6.815	83.077	129.575	0.00	0.00		O

ATOM	19679	CB	ARG	B	555	9.135	81.880	131.789	0.00	0.00	C
ATOM	19680	CG	ARG	B	555	10.061	82.223	130.590	0.00	0.00	C
ATOM	19681	CD	ARG	B	555	11.357	81.396	130.590	0.00	0.00	C
ATOM	19682	NE	ARG	B	555	11.048	80.003	130.442	0.00	0.00	N
ATOM	19683	CZ	ARG	B	555	11.859	79.090	129.913	0.00	0.00	C
ATOM	19684	NH1	ARG	B	555	13.021	79.389	129.355	0.00	0.00	N
ATOM	19685	NH2	ARG	B	555	11.440	77.838	129.923	0.00	0.00	N
ATOM	19686	HN	ARG	B	555	7.349	80.796	133.064	0.00	0.00	H
ATOM	19687	HNE	ARG	B	555	10.187	79.687	130.749	0.00	0.00	H
ATOM	19688	HNH1	ARG	B	555	13.326	80.304	129.367	0.00	0.00	H
ATOM	19689	HNH1	ARG	B	555	13.530	78.745	128.876	0.00	0.00	H
ATOM	19690	HNH2	ARG	B	555	10.548	77.671	130.247	0.00	0.00	H
ATOM	19691	HNH2	ARG	B	555	11.998	77.133	129.573	0.00	0.00	H
ATOM	19692	HCA	ARG	B	555	7.555	83.309	131.832	0.00	0.00	H
ATOM	19693	HCB	ARG	B	555	9.510	82.406	132.674	0.00	0.00	H
ATOM	19694	HCB	ARG	B	555	9.213	80.823	132.028	0.00	0.00	H
ATOM	19695	HCD	ARG	B	555	11.978	81.765	129.767	0.00	0.00	H
ATOM	19696	HCD	ARG	B	555	11.892	81.553	131.531	0.00	0.00	H
ATOM	19697	HCG	ARG	B	555	9.566	82.027	129.639	0.00	0.00	H
ATOM	19698	HCG	ARG	B	555	10.306	83.287	130.617	0.00	0.00	H
ATOM	19699	N	ILE	B	556	6.817	80.780	129.689	0.00	0.00	N
ATOM	19700	CA	ILE	B	556	6.132	80.477	128.427	0.00	0.00	C
ATOM	19701	C	ILE	B	556	4.658	80.814	128.455	0.00	0.00	C
ATOM	19702	O	ILE	B	556	3.750	80.055	128.044	0.00	0.00	O
ATOM	19703	CB	ILE	B	556	6.389	79.055	127.767	0.00	0.00	C
ATOM	19704	CG1	ILE	B	556	7.736	78.326	128.053	0.00	0.00	C
ATOM	19705	CG2	ILE	B	556	6.187	79.096	126.219	0.00	0.00	C
ATOM	19706	CD1	ILE	B	556	9.014	79.114	127.712	0.00	0.00	C
ATOM	19707	HN	ILE	B	556	7.145	80.053	130.213	0.00	0.00	H
ATOM	19708	HCA	ILE	B	556	6.576	81.184	127.735	0.00	0.00	H
ATOM	19709	HCB	ILE	B	556	5.626	78.371	128.155	0.00	0.00	H
ATOM	19710	HCD1	ILE	B	556	9.019	79.388	126.661	0.00	0.00	H
ATOM	19711	HCD1	ILE	B	556	9.093	80.014	128.317	0.00	0.00	H
ATOM	19712	HCD1	ILE	B	556	9.879	78.484	127.896	0.00	0.00	H
ATOM	19713	HCG1	ILE	B	556	7.760	78.030	129.089	0.00	0.00	H
ATOM	19714	HCG1	ILE	B	556	7.765	77.386	127.493	0.00	0.00	H
ATOM	19715	HCG2	ILE	B	556	5.176	79.413	125.968	0.00	0.00	H
ATOM	19716	HCG2	ILE	B	556	6.889	79.780	125.750	0.00	0.00	H
ATOM	19717	HCG2	ILE	B	556	6.352	78.123	125.762	0.00	0.00	H
ATOM	19718	N	LYS	B	557	4.314	82.030	128.909	0.00	0.00	N
ATOM	19719	CA	LYS	B	557	3.059	82.710	128.924	0.00	0.00	C
ATOM	19720	C	LYS	B	557	3.327	84.168	128.748	0.00	0.00	C
ATOM	19721	O	LYS	B	557	2.482	84.857	128.139	0.00	0.00	O
ATOM	19722	CB	LYS	B	557	2.274	82.411	130.237	0.00	0.00	C
ATOM	19723	CG	LYS	B	557	0.844	83.026	130.283	0.00	0.00	C
ATOM	19724	CD	LYS	B	557	0.137	82.908	131.662	0.00	0.00	C
ATOM	19725	CE	LYS	B	557	-0.434	81.516	132.022	0.00	0.00	C
ATOM	19726	NZ	LYS	B	557	-1.505	81.122	131.099	0.00	0.00	N
ATOM	19727	HN	LYS	B	557	5.071	82.484	129.233	0.00	0.00	H
ATOM	19728	HNZ	LYS	B	557	-1.097	80.793	130.224	0.00	0.00	H
ATOM	19729	HNZ	LYS	B	557	-2.073	80.393	131.499	0.00	0.00	H
ATOM	19730	HNZ	LYS	B	557	-2.104	81.926	130.908	0.00	0.00	H
ATOM	19731	HCA	LYS	B	557	2.462	82.361	128.075	0.00	0.00	H
ATOM	19732	HCB	LYS	B	557	2.195	81.327	130.356	0.00	0.00	H
ATOM	19733	HCB	LYS	B	557	2.848	82.793	131.082	0.00	0.00	H
ATOM	19734	HCD	LYS	B	557	0.841	83.202	132.444	0.00	0.00	H
ATOM	19735	HCD	LYS	B	557	-0.688	83.626	131.692	0.00	0.00	H
ATOM	19736	HCE	LYS	B	557	0.357	80.765	132.013	0.00	0.00	H
ATOM	19737	HCE	LYS	B	557	-0.853	81.563	133.030	0.00	0.00	H
ATOM	19738	HCG	LYS	B	557	0.917	84.094	130.066	0.00	0.00	H
ATOM	19739	HCG	LYS	B	557	0.228	82.576	129.500	0.00	0.00	H
ATOM	19740	N	GLN	B	558	4.473	84.787	129.133	0.00	0.00	N
ATOM	19741	CA	GLN	B	558	4.676	86.215	129.161	0.00	0.00	C
ATOM	19742	C	GLN	B	558	5.102	86.769	127.868	0.00	0.00	C
ATOM	19743	O	GLN	B	558	4.422	87.655	127.370	0.00	0.00	O
ATOM	19744	CB	GLN	B	558	5.669	86.540	130.313	0.00	0.00	C
ATOM	19745	CG	GLN	B	558	5.079	86.263	131.732	0.00	0.00	C
ATOM	19746	CD	GLN	B	558	6.098	86.401	132.786	0.00	0.00	C
ATOM	19747	NE2	GLN	B	558	6.673	87.581	133.024	0.00	0.00	N
ATOM	19748	OE1	GLN	B	558	6.498	85.419	133.445	0.00	0.00	O
ATOM	19749	HN	GLN	B	558	5.210	84.227	129.392	0.00	0.00	H
ATOM	19750	HNE2	GLN	B	558	6.350	88.379	132.588	0.00	0.00	H
ATOM	19751	HNE2	GLN	B	558	7.464	87.609	133.558	0.00	0.00	H
ATOM	19752	HCA	GLN	B	558	3.729	86.696	129.438	0.00	0.00	H
ATOM	19753	HCB	GLN	B	558	6.581	85.948	130.180	0.00	0.00	H
ATOM	19754	HCB	GLN	B	558	5.947	87.598	130.259	0.00	0.00	H
ATOM	19755	HCG	GLN	B	558	4.262	86.956	131.942	0.00	0.00	H
ATOM	19756	HCG	GLN	B	558	4.673	85.251	131.770	0.00	0.00	H
ATOM	19757	N	SER	B	559	6.196	86.335	127.257	0.00	0.00	N
ATOM	19758	CA	SER	B	559	6.846	86.802	126.033	0.00	0.00	C



ATOM	19759	C	SER	B	559	7.391	88.189	126.096	0.00	0.00		C
ATOM	19760	O	SER	B	559	8.604	88.460	125.951	0.00	0.00		O
ATOM	19761	CB	SER	B	559	6.037	86.734	124.678	0.00	0.00		C
ATOM	19762	OG	SER	B	559	5.357	85.571	124.224	0.00	0.00		O
ATOM	19763	HN	SER	B	559	6.657	85.626	127.736	0.00	0.00		H
ATOM	19764	HCA	SER	B	559	7.730	86.179	125.910	0.00	0.00		H
ATOM	19765	HC	SER	B	559	5.261	87.498	124.675	0.00	0.00		H
ATOM	19766	HC	SER	B	559	6.736	86.962	123.871	0.00	0.00		H
ATOM	19767	HOG	SER	B	559	5.308	84.959	124.960	0.00	0.00		H
ATOM	19768	N	ALA	B	560	6.443	89.133	126.086	0.00	0.00		N
ATOM	19769	CA	ALA	B	560	6.274	90.223	125.179	0.00	0.00		C
ATOM	19770	C	ALA	B	560	4.799	90.360	125.095	0.00	0.00		C
ATOM	19771	O	ALA	B	560	4.193	90.060	124.032	0.00	0.00		O
ATOM	19772	CB	ALA	B	560	6.915	90.000	123.778	0.00	0.00		C
ATOM	19773	HN	ALA	B	560	5.674	88.824	126.554	0.00	0.00		H
ATOM	19774	HCA	ALA	B	560	6.681	91.137	125.599	0.00	0.00		H
ATOM	19775	HC	ALA	B	560	7.996	89.887	123.850	0.00	0.00		H
ATOM	19776	HC	ALA	B	560	6.511	89.130	123.269	0.00	0.00		H
ATOM	19777	HC	ALA	B	560	6.688	90.856	123.154	0.00	0.00		H
ATOM	19778	N	ALA	B	561	4.114	90.745	126.207	0.00	0.00		N
ATOM	19779	CA	ALA	B	561	2.680	90.820	126.293	0.00	0.00		C
ATOM	19780	C	ALA	B	561	2.140	91.603	125.151	0.00	0.00		C
ATOM	19781	O	ALA	B	561	1.253	91.089	124.445	0.00	0.00		O
ATOM	19782	CB	ALA	B	561	2.239	91.333	127.682	0.00	0.00		C
ATOM	19783	HN	ALA	B	561	4.622	90.947	127.004	0.00	0.00		H
ATOM	19784	HCA	ALA	B	561	2.305	89.793	126.209	0.00	0.00		H
ATOM	19785	HC	ALA	B	561	2.642	92.321	127.888	0.00	0.00		H
ATOM	19786	HC	ALA	B	561	1.149	91.381	127.735	0.00	0.00		H
ATOM	19787	HC	ALA	B	561	2.588	90.649	128.459	0.00	0.00		H
ATOM	19788	N	GLY	B	562	2.793	92.719	124.765	0.00	0.00		N
ATOM	19789	CA	GLY	B	562	3.139	93.139	123.438	0.00	0.00		C
ATOM	19790	C	GLY	B	562	2.433	92.590	122.265	0.00	0.00		C
ATOM	19791	O	GLY	B	562	1.650	93.318	121.615	0.00	0.00		O
ATOM	19792	HN	GLY	B	562	3.152	93.240	125.477	0.00	0.00		H
ATOM	19793	HCA	GLY	B	562	3.081	94.220	123.439	0.00	0.00		H
ATOM	19794	HCA	GLY	B	562	4.192	92.902	123.287	0.00	0.00		H
ATOM	19795	N	THR	B	563	2.653	91.317	121.871	0.00	0.00		N
ATOM	19796	CA	THR	B	563	2.060	90.740	120.679	0.00	0.00		C
ATOM	19797	C	THR	B	563	0.581	90.654	120.758	0.00	0.00		C
ATOM	19798	O	THR	B	563	-0.093	90.389	119.735	0.00	0.00		O
ATOM	19799	CB	THR	B	563	2.645	89.347	120.316	0.00	0.00		C
ATOM	19800	CG2	THR	B	563	4.190	89.340	120.282	0.00	0.00		C
ATOM	19801	OG1	THR	B	563	2.175	88.353	121.227	0.00	0.00		O
ATOM	19802	HN	THR	B	563	3.193	90.792	122.469	0.00	0.00		H
ATOM	19803	HCA	THR	B	563	2.281	91.401	119.840	0.00	0.00		H
ATOM	19804	HC	THR	B	563	2.292	89.068	119.317	0.00	0.00		H
ATOM	19805	HCG2	THR	B	563	4.564	90.169	119.677	0.00	0.00		H
ATOM	19806	HCG2	THR	B	563	4.601	89.425	121.288	0.00	0.00		H
ATOM	19807	HCG2	THR	B	563	4.546	88.414	119.839	0.00	0.00		H
ATOM	19808	HOG1	THR	B	563	1.215	88.525	121.335	0.00	0.00		H
ATOM	19809	N	LYS	B	564	-0.014	90.794	121.959	0.00	0.00		N
ATOM	19810	CA	LYS	B	564	-1.377	90.681	122.317	0.00	0.00		C
ATOM	19811	C	LYS	B	564	-1.787	89.268	122.139	0.00	0.00		C
ATOM	19812	O	LYS	B	564	-1.062	88.381	122.670	0.00	0.00		O
ATOM	19813	CB	LYS	B	564	-2.215	91.827	121.663	0.00	0.00		C
ATOM	19814	CG	LYS	B	564	-3.512	92.191	122.439	0.00	0.00		C
ATOM	19815	CD	LYS	B	564	-3.268	93.056	123.707	0.00	0.00		C
ATOM	19816	CE	LYS	B	564	-4.588	93.488	124.387	0.00	0.00		C
ATOM	19817	NZ	LYS	B	564	-4.308	94.214	125.628	0.00	0.00		N
ATOM	19818	HN	LYS	B	564	0.542	90.944	122.714	0.00	0.00		H
ATOM	19819	HNZ	LYS	B	564	-3.728	95.029	125.427	0.00	0.00		H
ATOM	19820	HNZ	LYS	B	564	-5.183	94.519	126.054	0.00	0.00		H
ATOM	19821	HNZ	LYS	B	564	-3.812	93.603	126.279	0.00	0.00		H
ATOM	19822	HCA	LYS	B	564	-1.392	90.843	123.396	0.00	0.00		H
ATOM	19823	HC	LYS	B	564	-1.601	92.731	121.589	0.00	0.00		H
ATOM	19824	HC	LYS	B	564	-2.469	91.549	120.637	0.00	0.00		H
ATOM	19825	HCD	LYS	B	564	-2.674	92.490	124.428	0.00	0.00		H
ATOM	19826	HCD	LYS	B	564	-2.704	93.952	123.432	0.00	0.00		H
ATOM	19827	HCE	LYS	B	564	-5.158	94.138	123.718	0.00	0.00		H
ATOM	19828	HCE	LYS	B	564	-5.195	92.611	124.625	0.00	0.00		H
ATOM	19829	HCG	LYS	B	564	-4.168	92.746	121.760	0.00	0.00		H
ATOM	19830	HCG	LYS	B	564	-4.026	91.276	122.735	0.00	0.00		H
ATOM	19831	N	ARG	B	565	-2.877	88.972	121.396	0.00	0.00		N
ATOM	19832	CA	ARG	B	565	-3.435	87.678	121.174	0.00	0.00		C
ATOM	19833	C	ARG	B	565	-2.423	86.690	120.676	0.00	0.00		C
ATOM	19834	O	ARG	B	565	-2.027	86.741	119.485	0.00	0.00		O
ATOM	19835	CB	ARG	B	565	-4.686	87.823	120.249	0.00	0.00		C
ATOM	19836	CG	ARG	B	565	-6.007	88.341	120.910	0.00	0.00		C
ATOM	19837	CD	ARG	B	565	-6.313	89.850	120.718	0.00	0.00		C
ATOM	19838	NE	ARG	B	565	-7.627	90.183	121.180	0.00	0.00		N

ATOM	19839	CZ	ARG	B	565	-8.027	90.300	122.451	0.00	0.00	C
ATOM	19840	NH1	ARG	B	565	-7.230	90.210	123.503	0.00	0.00	N
ATOM	19841	NH2	ARG	B	565	-9.315	90.462	122.710	0.00	0.00	N
ATOM	19842	HN	ARG	B	565	-3.335	89.719	120.989	0.00	0.00	H
ATOM	19843	HNE	ARG	B	565	-8.319	90.271	120.513	0.00	0.00	H
ATOM	19844	HNH1	ARG	B	565	-6.287	90.064	123.386	0.00	0.00	H
ATOM	19845	HNH1	ARG	B	565	-7.620	90.244	124.386	0.00	0.00	H
ATOM	19846	HNH2	ARG	B	565	-9.965	90.501	122.003	0.00	0.00	H
ATOM	19847	HNH2	ARG	B	565	-9.615	90.448	123.616	0.00	0.00	H
ATOM	19848	HCA	ARG	B	565	-3.802	87.325	122.133	0.00	0.00	H
ATOM	19849	HCB	ARG	B	565	-4.433	88.428	119.373	0.00	0.00	H
ATOM	19850	HCB	ARG	B	565	-4.918	86.833	119.872	0.00	0.00	H
ATOM	19851	HCD	ARG	B	565	-5.563	90.458	121.218	0.00	0.00	H
ATOM	19852	HCD	ARG	B	565	-6.270	90.087	119.652	0.00	0.00	H
ATOM	19853	HCG	ARG	B	565	-6.845	87.793	120.466	0.00	0.00	H
ATOM	19854	HCG	ARG	B	565	-6.015	88.103	121.976	0.00	0.00	H
ATOM	19855	N	ARG	B	566	-1.899	85.769	121.528	0.00	0.00	N
ATOM	19856	CA	ARG	B	566	-0.971	84.723	121.163	0.00	0.00	C
ATOM	19857	C	ARG	B	566	-1.143	83.418	121.871	0.00	0.00	C
ATOM	19858	O	ARG	B	566	-1.323	83.397	123.112	0.00	0.00	O
ATOM	19859	CB	ARG	B	566	0.495	85.232	121.279	0.00	0.00	C
ATOM	19860	CG	ARG	B	566	1.521	84.259	120.620	0.00	0.00	C
ATOM	19861	CD	ARG	B	566	2.737	84.929	119.951	0.00	0.00	C
ATOM	19862	NE	ARG	B	566	3.771	85.291	120.852	0.00	0.00	N
ATOM	19863	CZ	ARG	B	566	4.972	85.700	120.447	0.00	0.00	C
ATOM	19864	NH1	ARG	B	566	5.259	85.926	119.167	0.00	0.00	N
ATOM	19865	NH2	ARG	B	566	5.902	85.906	121.368	0.00	0.00	N
ATOM	19866	HN	ARG	B	566	-2.154	85.890	122.446	0.00	0.00	H
ATOM	19867	HNE	ARG	B	566	3.596	85.287	121.793	0.00	0.00	H
ATOM	19868	HNH1	ARG	B	566	4.574	85.838	118.490	0.00	0.00	H
ATOM	19869	HNH1	ARG	B	566	6.146	86.209	118.921	0.00	0.00	H
ATOM	19870	HNH2	ARG	B	566	5.709	85.764	122.293	0.00	0.00	H
ATOM	19871	HNH2	ARG	B	566	6.781	86.201	121.098	0.00	0.00	H
ATOM	19872	HCA	ARG	B	566	-1.145	84.519	120.107	0.00	0.00	H
ATOM	19873	HCB	ARG	B	566	0.544	86.206	120.786	0.00	0.00	H
ATOM	19874	HCB	ARG	B	566	0.750	85.383	122.331	0.00	0.00	H
ATOM	19875	HCD	ARG	B	566	3.138	84.225	119.213	0.00	0.00	H
ATOM	19876	HCD	ARG	B	566	2.421	85.833	119.432	0.00	0.00	H
ATOM	19877	HCG	ARG	B	566	1.848	83.508	121.337	0.00	0.00	H
ATOM	19878	HCG	ARG	B	566	1.028	83.704	119.828	0.00	0.00	H
ATOM	19879	N	VAL	B	567	-1.031	82.264	121.158	0.00	0.00	N
ATOM	19880	CA	VAL	B	567	-1.125	80.915	121.674	0.00	0.00	C
ATOM	19881	C	VAL	B	567	0.193	80.200	121.731	0.00	0.00	C
ATOM	19882	O	VAL	B	567	0.988	80.222	120.761	0.00	0.00	O
ATOM	19883	CB	VAL	B	567	-2.214	80.114	120.878	0.00	0.00	C
ATOM	19884	CG1	VAL	B	567	-2.353	78.635	121.342	0.00	0.00	C
ATOM	19885	CG2	VAL	B	567	-3.603	80.800	120.993	0.00	0.00	C
ATOM	19886	HN	VAL	B	567	-0.919	82.379	120.211	0.00	0.00	H
ATOM	19887	HCA	VAL	B	567	-1.497	80.969	122.697	0.00	0.00	H
ATOM	19888	HCB	VAL	B	567	-1.930	80.104	119.819	0.00	0.00	H
ATOM	19889	HCG1	VAL	B	567	-2.574	78.582	122.410	0.00	0.00	H
ATOM	19890	HCG1	VAL	B	567	-3.150	78.127	120.795	0.00	0.00	H
ATOM	19891	HCG1	VAL	B	567	-1.428	78.094	121.148	0.00	0.00	H
ATOM	19892	HCG2	VAL	B	567	-3.573	81.775	120.512	0.00	0.00	H
ATOM	19893	HCG2	VAL	B	567	-4.373	80.205	120.502	0.00	0.00	H
ATOM	19894	HCG2	VAL	B	567	-3.889	80.936	122.037	0.00	0.00	H
ATOM	19895	N	PHE	B	568	0.496	79.485	122.844	0.00	0.00	N
ATOM	19896	CA	PHE	B	568	1.666	78.682	123.100	0.00	0.00	C
ATOM	19897	C	PHE	B	568	1.327	77.245	123.272	0.00	0.00	C
ATOM	19898	O	PHE	B	568	0.591	76.893	124.230	0.00	0.00	O
ATOM	19899	CB	PHE	B	568	2.399	79.217	124.363	0.00	0.00	C
ATOM	19900	CG	PHE	B	568	2.690	80.658	124.211	0.00	0.00	C
ATOM	19901	CD1	PHE	B	568	1.891	81.621	124.866	0.00	0.00	C
ATOM	19902	CD2	PHE	B	568	3.705	81.081	123.325	0.00	0.00	C
ATOM	19903	CE1	PHE	B	568	2.074	82.984	124.595	0.00	0.00	C
ATOM	19904	CE2	PHE	B	568	3.896	82.447	123.063	0.00	0.00	C
ATOM	19905	CZ	PHE	B	568	3.076	83.390	123.701	0.00	0.00	C
ATOM	19906	HN	PHE	B	568	-0.124	79.582	123.563	0.00	0.00	H
ATOM	19907	HCA	PHE	B	568	2.363	78.770	122.263	0.00	0.00	H
ATOM	19908	HCB	PHE	B	568	1.787	79.043	125.253	0.00	0.00	H
ATOM	19909	HCB	PHE	B	568	3.335	78.674	124.506	0.00	0.00	H
ATOM	19910	HCD1	PHE	B	568	1.153	81.336	125.515	0.00	0.00	H
ATOM	19911	HCD2	PHE	B	568	4.308	80.394	122.870	0.00	0.00	H
ATOM	19912	HCE1	PHE	B	568	1.467	83.670	125.034	0.00	0.00	H
ATOM	19913	HCE2	PHE	B	568	4.629	82.748	122.416	0.00	0.00	H
ATOM	19914	HCZ	PHE	B	568	3.196	84.373	123.503	0.00	0.00	H
ATOM	19915	N	ILE	B	569	1.824	76.339	122.394	0.00	0.00	N
ATOM	19916	CA	ILE	B	569	1.604	74.911	122.432	0.00	0.00	C
ATOM	19917	C	ILE	B	569	2.826	74.194	122.906	0.00	0.00	C
ATOM	19918	O	ILE	B	569	3.881	74.152	122.228	0.00	0.00	O

ATOM	19919	CB	ILE	B	569	0.977	74.487	121.056	0.00	0.00	C
ATOM	19920	CG1	ILE	B	569	-0.522	74.955	121.021	0.00	0.00	C
ATOM	19921	CG2	ILE	B	569	1.083	72.963	120.761	0.00	0.00	C
ATOM	19922	CD1	ILE	B	569	-1.124	75.227	119.635	0.00	0.00	C
ATOM	19923	HN	ILE	B	569	2.313	76.708	121.650	0.00	0.00	H
ATOM	19924	HCA	ILE	B	569	0.836	74.685	123.174	0.00	0.00	H
ATOM	19925	HCB	ILE	B	569	1.528	75.002	120.262	0.00	0.00	H
ATOM	19926	HCD1	ILE	B	569	-0.472	75.873	119.047	0.00	0.00	H
ATOM	19927	HCD1	ILE	B	569	-1.292	74.289	119.116	0.00	0.00	H
ATOM	19928	HCD1	ILE	B	569	-2.086	75.727	119.755	0.00	0.00	H
ATOM	19929	HCG1	ILE	B	569	-1.148	74.212	121.523	0.00	0.00	H
ATOM	19930	HCG1	ILE	B	569	-0.632	75.887	121.578	0.00	0.00	H
ATOM	19931	HCG2	ILE	B	569	2.128	72.658	120.701	0.00	0.00	H
ATOM	19932	HCG2	ILE	B	569	0.593	72.382	121.545	0.00	0.00	H
ATOM	19933	HCG2	ILE	B	569	0.618	72.727	119.803	0.00	0.00	H
ATOM	19934	N	ILE	B	570	2.806	73.596	124.120	0.00	0.00	N
ATOM	19935	CA	ILE	B	570	3.942	73.005	124.782	0.00	0.00	C
ATOM	19936	C	ILE	B	570	3.884	71.524	124.681	0.00	0.00	C
ATOM	19937	O	ILE	B	570	2.913	70.933	125.209	0.00	0.00	O
ATOM	19938	CB	ILE	B	570	4.016	73.465	126.279	0.00	0.00	C
ATOM	19939	CG1	ILE	B	570	3.670	74.966	126.527	0.00	0.00	C
ATOM	19940	CG2	ILE	B	570	5.373	73.087	126.938	0.00	0.00	C
ATOM	19941	CD1	ILE	B	570	4.561	75.989	125.798	0.00	0.00	C
ATOM	19942	HN	ILE	B	570	1.970	73.634	124.593	0.00	0.00	H
ATOM	19943	HCA	ILE	B	570	4.866	73.345	124.309	0.00	0.00	H
ATOM	19944	HCB	ILE	B	570	3.252	72.903	126.820	0.00	0.00	H
ATOM	19945	HCD1	ILE	B	570	5.598	75.886	126.115	0.00	0.00	H
ATOM	19946	HCD1	ILE	B	570	4.503	75.870	124.716	0.00	0.00	H
ATOM	19947	HCD1	ILE	B	570	4.213	76.990	126.054	0.00	0.00	H
ATOM	19948	HCG1	ILE	B	570	2.635	75.150	126.227	0.00	0.00	H
ATOM	19949	HCG1	ILE	B	570	3.726	75.171	127.599	0.00	0.00	H
ATOM	19950	HCG2	ILE	B	570	5.539	72.011	126.877	0.00	0.00	H
ATOM	19951	HCG2	ILE	B	570	6.204	73.586	126.439	0.00	0.00	H
ATOM	19952	HCG2	ILE	B	570	5.375	73.369	127.993	0.00	0.00	H
ATOM	19953	N	GLU	B	571	4.886	70.807	124.114	0.00	0.00	N
ATOM	19954	CA	GLU	B	571	4.988	69.370	124.193	0.00	0.00	C
ATOM	19955	C	GLU	B	571	5.795	69.043	125.396	0.00	0.00	C
ATOM	19956	O	GLU	B	571	7.009	69.367	125.429	0.00	0.00	O
ATOM	19957	CB	GLU	B	571	5.527	68.711	122.898	0.00	0.00	C
ATOM	19958	CG	GLU	B	571	5.480	67.154	122.898	0.00	0.00	C
ATOM	19959	CD	GLU	B	571	6.028	66.514	121.686	0.00	0.00	C
ATOM	19960	OE1	GLU	B	571	6.472	67.169	120.717	0.00	0.00	O
ATOM	19961	OE2	GLU	B	571	5.998	65.271	121.570	0.00	0.00	O
ATOM	19962	HN	GLU	B	571	5.606	71.314	123.731	0.00	0.00	H
ATOM	19963	HCA	GLU	B	571	3.987	68.953	124.307	0.00	0.00	H
ATOM	19964	HCB	GLU	B	571	4.942	69.085	122.058	0.00	0.00	H
ATOM	19965	HCB	GLU	B	571	6.555	69.003	122.746	0.00	0.00	H
ATOM	19966	HCG	GLU	B	571	6.049	66.772	123.749	0.00	0.00	H
ATOM	19967	HCG	GLU	B	571	4.444	66.832	123.010	0.00	0.00	H
ATOM	19968	N	THR	B	572	5.178	68.407	126.419	0.00	0.00	N
ATOM	19969	CA	THR	B	572	5.722	68.037	127.695	0.00	0.00	C
ATOM	19970	C	THR	B	572	5.954	66.569	127.750	0.00	0.00	C
ATOM	19971	O	THR	B	572	5.395	65.787	126.940	0.00	0.00	O
ATOM	19972	CB	THR	B	572	4.795	68.468	128.881	0.00	0.00	C
ATOM	19973	CG2	THR	B	572	4.414	69.965	128.896	0.00	0.00	C
ATOM	19974	OG1	THR	B	572	3.578	67.725	128.880	0.00	0.00	O
ATOM	19975	HN	THR	B	572	4.278	68.136	126.247	0.00	0.00	H
ATOM	19976	HCA	THR	B	572	6.691	68.525	127.828	0.00	0.00	H
ATOM	19977	HCB	THR	B	572	5.312	68.251	129.823	0.00	0.00	H
ATOM	19978	HCG2	THR	B	572	5.309	70.583	128.938	0.00	0.00	H
ATOM	19979	HCG2	THR	B	572	3.843	70.224	128.003	0.00	0.00	H
ATOM	19980	HCG2	THR	B	572	3.805	70.191	129.773	0.00	0.00	H
ATOM	19981	HOG1	THR	B	572	3.103	68.021	129.685	0.00	0.00	H
ATOM	19982	N	MET	B	573	6.775	66.078	128.703	0.00	0.00	N
ATOM	19983	CA	MET	B	573	7.169	64.706	128.857	0.00	0.00	C
ATOM	19984	C	MET	B	573	6.319	63.936	129.801	0.00	0.00	C
ATOM	19985	O	MET	B	573	5.674	64.507	130.711	0.00	0.00	O
ATOM	19986	CB	MET	B	573	8.675	64.618	129.239	0.00	0.00	C
ATOM	19987	CG	MET	B	573	9.122	65.472	130.468	0.00	0.00	C
ATOM	19988	SD	MET	B	573	9.637	64.476	131.889	0.00	0.00	S
ATOM	19989	CE	MET	B	573	11.360	64.231	131.415	0.00	0.00	C
ATOM	19990	HN	MET	B	573	7.126	66.716	129.338	0.00	0.00	H
ATOM	19991	HCA	MET	B	573	7.080	64.220	127.882	0.00	0.00	H
ATOM	19992	HCB	MET	B	573	8.951	63.570	129.379	0.00	0.00	H
ATOM	19993	HCB	MET	B	573	9.231	64.942	128.363	0.00	0.00	H
ATOM	19994	HCE	MET	B	573	11.417	63.700	130.466	0.00	0.00	H
ATOM	19995	HCE	MET	B	573	11.857	65.193	131.325	0.00	0.00	H
ATOM	19996	HCE	MET	B	573	11.869	63.648	132.180	0.00	0.00	H
ATOM	19997	HCG	MET	B	573	9.928	66.152	130.180	0.00	0.00	H
ATOM	19998	HCG	MET	B	573	8.306	66.097	130.828	0.00	0.00	H

ATOM	19999	N	GLY	B	574	6.266	62.595	129.645	0.00	0.00	N
ATOM	20000	CA	GLY	B	574	5.574	61.671	130.493	0.00	0.00	C
ATOM	20001	C	GLY	B	574	5.471	60.291	129.963	0.00	0.00	C
ATOM	20002	O	GLY	B	574	4.930	59.438	130.709	0.00	0.00	O
ATOM	20003	HN	GLY	B	574	6.749	62.261	128.890	0.00	0.00	H
ATOM	20004	HCA	GLY	B	574	6.091	61.632	131.454	0.00	0.00	H
ATOM	20005	HCA	GLY	B	574	4.558	62.034	130.665	0.00	0.00	H
ATOM	20006	N	GLY	B	575	5.941	59.941	128.735	0.00	0.00	N
ATOM	20007	CA	GLY	B	575	5.803	58.684	128.045	0.00	0.00	C
ATOM	20008	C	GLY	B	575	4.449	58.365	127.574	0.00	0.00	C
ATOM	20009	O	GLY	B	575	4.239	58.016	126.398	0.00	0.00	O
ATOM	20010	HN	GLY	B	575	6.450	60.595	128.261	0.00	0.00	H
ATOM	20011	HCA	GLY	B	575	6.486	58.697	127.194	0.00	0.00	H
ATOM	20012	HCA	GLY	B	575	6.096	57.858	128.684	0.00	0.00	H
ATOM	20013	N	TYR	B	576	3.489	58.424	128.503	0.00	0.00	N
ATOM	20014	CA	TYR	B	576	2.088	58.190	128.409	0.00	0.00	C
ATOM	20015	C	TYR	B	576	1.426	58.790	129.603	0.00	0.00	C
ATOM	20016	O	TYR	B	576	0.213	59.067	129.492	0.00	0.00	O
ATOM	20017	CB	TYR	B	576	1.760	56.666	128.279	0.00	0.00	C
ATOM	20018	CG	TYR	B	576	1.886	56.146	126.888	0.00	0.00	C
ATOM	20019	CD1	TYR	B	576	2.907	55.240	126.514	0.00	0.00	C
ATOM	20020	CD2	TYR	B	576	0.969	56.568	125.898	0.00	0.00	C
ATOM	20021	CE1	TYR	B	576	3.035	54.812	125.177	0.00	0.00	C
ATOM	20022	CE2	TYR	B	576	1.097	56.146	124.563	0.00	0.00	C
ATOM	20023	CZ	TYR	B	576	2.148	55.290	124.195	0.00	0.00	C
ATOM	20024	OH	TYR	B	576	2.314	54.963	122.892	0.00	0.00	O
ATOM	20025	HN	TYR	B	576	3.847	58.700	129.333	0.00	0.00	H
ATOM	20026	HCA	TYR	B	576	1.718	58.737	127.535	0.00	0.00	H
ATOM	20027	HCB	TYR	B	576	2.412	56.112	128.959	0.00	0.00	H
ATOM	20028	HCB	TYR	B	576	0.735	56.468	128.605	0.00	0.00	H
ATOM	20029	HCD1	TYR	B	576	3.576	54.902	127.209	0.00	0.00	H
ATOM	20030	HCD2	TYR	B	576	0.208	57.202	126.141	0.00	0.00	H
ATOM	20031	HCE1	TYR	B	576	3.786	54.171	124.915	0.00	0.00	H
ATOM	20032	HCE2	TYR	B	576	0.433	56.474	123.859	0.00	0.00	H
ATOM	20033	HOH	TYR	B	576	1.790	55.427	122.217	0.00	0.00	H
ATOM	20034	N	CYS	B	577	2.080	59.109	130.752	0.00	0.00	N
ATOM	20035	CA	CYS	B	577	1.480	59.555	131.976	0.00	0.00	C
ATOM	20036	C	CYS	B	577	1.116	60.992	131.901	0.00	0.00	C
ATOM	20037	O	CYS	B	577	1.995	61.856	131.668	0.00	0.00	O
ATOM	20038	CB	CYS	B	577	2.441	59.300	133.168	0.00	0.00	C
ATOM	20039	SG	CYS	B	577	1.757	59.856	134.748	0.00	0.00	S
ATOM	20040	HN	CYS	B	577	3.032	59.107	130.740	0.00	0.00	H
ATOM	20041	HCA	CYS	B	577	0.590	58.950	132.158	0.00	0.00	H
ATOM	20042	HCB	CYS	B	577	2.664	58.235	133.247	0.00	0.00	H
ATOM	20043	HCB	CYS	B	577	3.383	59.831	133.011	0.00	0.00	H
ATOM	20044	HSG	CYS	B	577	0.770	58.925	134.812	0.00	0.00	H
ATOM	20045	N	GLY	B	578	-0.161	61.358	132.123	0.00	0.00	N
ATOM	20046	CA	GLY	B	578	-0.641	62.704	132.144	0.00	0.00	C
ATOM	20047	C	GLY	B	578	-0.443	63.494	133.376	0.00	0.00	C
ATOM	20048	O	GLY	B	578	-0.991	64.627	133.394	0.00	0.00	O
ATOM	20049	HN	GLY	B	578	-0.789	60.641	132.256	0.00	0.00	H
ATOM	20050	HCA	GLY	B	578	-0.209	63.261	131.310	0.00	0.00	H
ATOM	20051	HCA	GLY	B	578	-1.710	62.634	131.978	0.00	0.00	H
ATOM	20052	N	TYR	B	579	0.295	63.038	134.423	0.00	0.00	N
ATOM	20053	CA	TYR	B	579	0.539	63.748	135.655	0.00	0.00	C
ATOM	20054	C	TYR	B	579	1.117	65.096	135.410	0.00	0.00	C
ATOM	20055	O	TYR	B	579	0.423	66.103	135.684	0.00	0.00	O
ATOM	20056	CB	TYR	B	579	1.457	62.887	136.577	0.00	0.00	C
ATOM	20057	CG	TYR	B	579	1.884	63.554	137.843	0.00	0.00	C
ATOM	20058	CD1	TYR	B	579	1.057	63.543	138.987	0.00	0.00	C
ATOM	20059	CD2	TYR	B	579	3.142	64.194	137.935	0.00	0.00	C
ATOM	20060	CE1	TYR	B	579	1.485	64.127	140.194	0.00	0.00	C
ATOM	20061	CE2	TYR	B	579	3.556	64.817	139.126	0.00	0.00	C
ATOM	20062	CZ	TYR	B	579	2.734	64.769	140.263	0.00	0.00	C
ATOM	20063	OH	TYR	B	579	3.151	65.341	141.414	0.00	0.00	O
ATOM	20064	HN	TYR	B	579	0.676	62.151	134.347	0.00	0.00	H
ATOM	20065	HCA	TYR	B	579	-0.423	63.864	136.164	0.00	0.00	H
ATOM	20066	HCB	TYR	B	579	0.937	61.959	136.831	0.00	0.00	H
ATOM	20067	HCB	TYR	B	579	2.346	62.589	136.013	0.00	0.00	H
ATOM	20068	HCD1	TYR	B	579	0.142	63.099	138.953	0.00	0.00	H
ATOM	20069	HCD2	TYR	B	579	3.771	64.207	137.135	0.00	0.00	H
ATOM	20070	HCE1	TYR	B	579	0.883	64.088	141.016	0.00	0.00	H
ATOM	20071	HCE2	TYR	B	579	4.458	65.296	139.166	0.00	0.00	H
ATOM	20072	HOH	TYR	B	579	2.589	65.303	142.214	0.00	0.00	H
ATOM	20073	N	LEU	B	580	2.357	65.230	134.879	0.00	0.00	N
ATOM	20074	CA	LEU	B	580	3.044	66.475	134.672	0.00	0.00	C
ATOM	20075	C	LEU	B	580	2.224	67.419	133.876	0.00	0.00	C
ATOM	20076	O	LEU	B	580	1.992	68.552	134.348	0.00	0.00	O
ATOM	20077	CB	LEU	B	580	4.430	66.250	133.998	0.00	0.00	C
ATOM	20078	CG	LEU	B	580	5.486	65.495	134.865	0.00	0.00	C

ATOM	20079	CD1	LEU	B	580	6.711	65.105	134.003	0.00	0.00	C
ATOM	20080	CD2	LEU	B	580	5.957	66.313	136.101	0.00	0.00	C
ATOM	20081	HN	LEU	B	580	2.827	64.413	134.654	0.00	0.00	H
ATOM	20082	HCA	LEU	B	580	3.205	66.928	135.654	0.00	0.00	H
ATOM	20083	HC	LEU	B	580	4.268	65.693	133.070	0.00	0.00	H
ATOM	20084	HC	LEU	B	580	4.856	67.220	133.719	0.00	0.00	H
ATOM	20085	HCD1	LEU	B	580	7.207	65.993	133.603	0.00	0.00	H
ATOM	20086	HCD1	LEU	B	580	7.422	64.543	134.603	0.00	0.00	H
ATOM	20087	HCD1	LEU	B	580	6.408	64.465	133.175	0.00	0.00	H
ATOM	20088	HCD2	LEU	B	580	5.133	66.508	136.786	0.00	0.00	H
ATOM	20089	HCD2	LEU	B	580	6.710	65.756	136.660	0.00	0.00	H
ATOM	20090	HCD2	LEU	B	580	6.387	67.268	135.792	0.00	0.00	H
ATOM	20091	HCG	LEU	B	580	5.045	64.559	135.217	0.00	0.00	H
ATOM	20092	N	ALA	B	581	1.674	67.034	132.703	0.00	0.00	N
ATOM	20093	CA	ALA	B	581	0.790	67.826	131.903	0.00	0.00	C
ATOM	20094	C	ALA	B	581	-0.398	68.332	132.655	0.00	0.00	C
ATOM	20095	O	ALA	B	581	-0.580	69.569	132.695	0.00	0.00	O
ATOM	20096	CB	ALA	B	581	0.386	66.979	130.676	0.00	0.00	C
ATOM	20097	HN	ALA	B	581	1.892	66.142	132.394	0.00	0.00	H
ATOM	20098	HCA	ALA	B	581	1.360	68.684	131.530	0.00	0.00	H
ATOM	20099	HCB	ALA	B	581	-0.081	66.053	131.005	0.00	0.00	H
ATOM	20100	HCB	ALA	B	581	-0.311	67.529	130.040	0.00	0.00	H
ATOM	20101	HCB	ALA	B	581	1.265	66.727	130.080	0.00	0.00	H
ATOM	20102	N	THR	B	582	-1.262	67.526	133.321	0.00	0.00	N
ATOM	20103	CA	THR	B	582	-2.419	67.989	134.062	0.00	0.00	C
ATOM	20104	C	THR	B	582	-2.055	68.896	135.188	0.00	0.00	C
ATOM	20105	O	THR	B	582	-2.633	70.005	135.322	0.00	0.00	O
ATOM	20106	CB	THR	B	582	-3.247	66.767	134.565	0.00	0.00	C
ATOM	20107	CG2	THR	B	582	-4.544	67.127	135.326	0.00	0.00	C
ATOM	20108	OG1	THR	B	582	-3.609	65.951	133.446	0.00	0.00	O
ATOM	20109	HN	THR	B	582	-1.100	66.581	133.315	0.00	0.00	H
ATOM	20110	HCA	THR	B	582	-3.058	68.543	133.367	0.00	0.00	H
ATOM	20111	HCB	THR	B	582	-2.626	66.166	135.240	0.00	0.00	H
ATOM	20112	HCG2	THR	B	582	-5.212	67.700	134.689	0.00	0.00	H
ATOM	20113	HCG2	THR	B	582	-5.058	66.219	135.640	0.00	0.00	H
ATOM	20114	HCG2	THR	B	582	-4.321	67.711	136.221	0.00	0.00	H
ATOM	20115	HOG1	THR	B	582	-2.776	65.457	133.322	0.00	0.00	H
ATOM	20116	N	MET	B	583	-1.098	68.526	136.067	0.00	0.00	N
ATOM	20117	CA	MET	B	583	-0.684	69.279	137.215	0.00	0.00	C
ATOM	20118	C	MET	B	583	-0.089	70.590	136.821	0.00	0.00	C
ATOM	20119	O	MET	B	583	-0.504	71.638	137.371	0.00	0.00	O
ATOM	20120	CB	MET	B	583	0.298	68.411	138.051	0.00	0.00	C
ATOM	20121	CG	MET	B	583	-0.294	67.098	138.634	0.00	0.00	C
ATOM	20122	SD	MET	B	583	-1.386	67.321	140.060	0.00	0.00	S
ATOM	20123	CE	MET	B	583	-0.151	67.522	141.361	0.00	0.00	C
ATOM	20124	HN	MET	B	583	-0.633	67.704	135.907	0.00	0.00	H
ATOM	20125	HCA	MET	B	583	-1.565	69.469	137.838	0.00	0.00	H
ATOM	20126	HCB	MET	B	583	1.143	68.138	137.414	0.00	0.00	H
ATOM	20127	HCB	MET	B	583	0.686	69.010	138.875	0.00	0.00	H
ATOM	20128	HCE	MET	B	583	0.555	66.695	141.354	0.00	0.00	H
ATOM	20129	HCE	MET	B	583	0.381	68.459	141.228	0.00	0.00	H
ATOM	20130	HCE	MET	B	583	-0.654	67.540	142.324	0.00	0.00	H
ATOM	20131	HCG	MET	B	583	-0.876	66.578	137.874	0.00	0.00	H
ATOM	20132	HCG	MET	B	583	0.525	66.437	138.914	0.00	0.00	H
ATOM	20133	N	ALA	B	584	0.839	70.689	135.837	0.00	0.00	N
ATOM	20134	CA	ALA	B	584	1.346	71.915	135.295	0.00	0.00	C
ATOM	20135	C	ALA	B	584	0.263	72.724	134.684	0.00	0.00	C
ATOM	20136	O	ALA	B	584	0.219	73.944	134.950	0.00	0.00	O
ATOM	20137	CB	ALA	B	584	2.453	71.625	134.259	0.00	0.00	C
ATOM	20138	HN	ALA	B	584	1.164	69.897	135.416	0.00	0.00	H
ATOM	20139	HCA	ALA	B	584	1.810	72.483	136.108	0.00	0.00	H
ATOM	20140	HCB	ALA	B	584	3.271	71.072	134.726	0.00	0.00	H
ATOM	20141	HCB	ALA	B	584	2.064	71.040	133.424	0.00	0.00	H
ATOM	20142	HCB	ALA	B	584	2.846	72.566	133.870	0.00	0.00	H
ATOM	20143	N	GLY	B	585	-0.686	72.170	133.893	0.00	0.00	N
ATOM	20144	CA	GLY	B	585	-1.846	72.836	133.385	0.00	0.00	C
ATOM	20145	C	GLY	B	585	-2.618	73.550	134.412	0.00	0.00	C
ATOM	20146	O	GLY	B	585	-2.929	74.748	134.229	0.00	0.00	O
ATOM	20147	HN	GLY	B	585	-0.580	71.262	133.609	0.00	0.00	H
ATOM	20148	HCA	GLY	B	585	-1.529	73.535	132.615	0.00	0.00	H
ATOM	20149	HCA	GLY	B	585	-2.499	72.092	132.926	0.00	0.00	H
ATOM	20150	N	LEU	B	586	-2.955	72.917	135.553	0.00	0.00	N
ATOM	20151	CA	LEU	B	586	-3.540	73.574	136.689	0.00	0.00	C
ATOM	20152	C	LEU	B	586	-2.646	74.648	137.226	0.00	0.00	C
ATOM	20153	O	LEU	B	586	-3.012	75.849	137.164	0.00	0.00	O
ATOM	20154	CB	LEU	B	586	-3.953	72.466	137.706	0.00	0.00	C
ATOM	20155	CG	LEU	B	586	-4.781	72.919	138.949	0.00	0.00	C
ATOM	20156	CD1	LEU	B	586	-6.083	73.668	138.564	0.00	0.00	C
ATOM	20157	CD2	LEU	B	586	-5.149	71.693	139.831	0.00	0.00	C
ATOM	20158	HN	LEU	B	586	-2.797	71.968	135.573	0.00	0.00	H

ATOM	20159	HCA	LEU	B	586	-4.456	74.056	136.339	0.00	0.00		H
ATOM	20160	HCN	LEU	B	586	-4.543	71.715	137.169	0.00	0.00		H
ATOM	20161	HCN	LEU	B	586	-3.048	71.965	138.052	0.00	0.00		H
ATOM	20162	HCD1	LEU	B	586	-6.662	73.086	137.843	0.00	0.00		H
ATOM	20163	HCD1	LEU	B	586	-6.700	73.836	139.447	0.00	0.00		H
ATOM	20164	HCD1	LEU	B	586	-5.856	74.643	138.133	0.00	0.00		H
ATOM	20165	HCD2	LEU	B	586	-5.864	71.049	139.316	0.00	0.00		H
ATOM	20166	HCD2	LEU	B	586	-4.271	71.096	140.064	0.00	0.00		H
ATOM	20167	HCD2	LEU	B	586	-5.587	72.023	140.775	0.00	0.00		H
ATOM	20168	HCG	LEU	B	586	-4.164	73.596	139.551	0.00	0.00		H
ATOM	20169	N	ALA	B	587	-1.415	74.362	137.705	0.00	0.00		N
ATOM	20170	CA	ALA	B	587	-0.521	75.288	138.353	0.00	0.00		C
ATOM	20171	C	ALA	B	587	-0.185	76.518	137.571	0.00	0.00		C
ATOM	20172	O	ALA	B	587	-0.216	77.643	138.125	0.00	0.00		O
ATOM	20173	CB	ALA	B	587	0.753	74.504	138.746	0.00	0.00		C
ATOM	20174	HN	ALA	B	587	-1.123	73.453	137.616	0.00	0.00		H
ATOM	20175	HCA	ALA	B	587	-1.004	75.600	139.285	0.00	0.00		H
ATOM	20176	HCN	ALA	B	587	0.497	73.634	139.353	0.00	0.00		H
ATOM	20177	HCN	ALA	B	587	1.288	74.164	137.858	0.00	0.00		H
ATOM	20178	HCN	ALA	B	587	1.417	75.139	139.331	0.00	0.00		H
ATOM	20179	N	ALA	B	588	0.143	76.451	136.265	0.00	0.00		N
ATOM	20180	CA	ALA	B	588	0.428	77.556	135.397	0.00	0.00		C
ATOM	20181	C	ALA	B	588	-0.787	78.097	134.722	0.00	0.00		C
ATOM	20182	O	ALA	B	588	-0.618	79.023	133.894	0.00	0.00		O
ATOM	20183	CB	ALA	B	588	1.502	77.076	134.387	0.00	0.00		C
ATOM	20184	HN	ALA	B	588	0.150	75.589	135.860	0.00	0.00		H
ATOM	20185	HCA	ALA	B	588	0.871	78.381	135.963	0.00	0.00		H
ATOM	20186	HCN	ALA	B	588	2.378	76.696	134.916	0.00	0.00		H
ATOM	20187	HCN	ALA	B	588	1.107	76.286	133.745	0.00	0.00		H
ATOM	20188	HCN	ALA	B	588	1.830	77.907	133.757	0.00	0.00		H
ATOM	20189	N	GLY	B	589	-2.056	77.680	134.982	0.00	0.00		N
ATOM	20190	CA	GLY	B	589	-3.229	78.232	134.360	0.00	0.00		C
ATOM	20191	C	GLY	B	589	-3.295	78.082	132.889	0.00	0.00		C
ATOM	20192	O	GLY	B	589	-3.306	79.101	132.156	0.00	0.00		O
ATOM	20193	HN	GLY	B	589	-2.213	77.015	135.665	0.00	0.00		H
ATOM	20194	HCA	GLY	B	589	-4.103	77.736	134.785	0.00	0.00		H
ATOM	20195	HCA	GLY	B	589	-3.303	79.291	134.618	0.00	0.00		H
ATOM	20196	N	ALA	B	590	-3.362	76.845	132.358	0.00	0.00		N
ATOM	20197	CA	ALA	B	590	-3.594	76.520	130.982	0.00	0.00		C
ATOM	20198	C	ALA	B	590	-5.037	76.439	130.631	0.00	0.00		C
ATOM	20199	O	ALA	B	590	-5.922	76.405	131.519	0.00	0.00		O
ATOM	20200	CB	ALA	B	590	-2.876	75.184	130.671	0.00	0.00		C
ATOM	20201	HN	ALA	B	590	-3.265	76.124	132.975	0.00	0.00		H
ATOM	20202	HCA	ALA	B	590	-3.150	77.291	130.354	0.00	0.00		H
ATOM	20203	HCN	ALA	B	590	-3.336	74.370	131.233	0.00	0.00		H
ATOM	20204	HCN	ALA	B	590	-2.938	74.941	129.610	0.00	0.00		H
ATOM	20205	HCN	ALA	B	590	-1.820	75.255	130.939	0.00	0.00		H
ATOM	20206	N	ASP	B	591	-5.368	76.377	129.322	0.00	0.00		N
ATOM	20207	CA	ASP	B	591	-6.683	76.151	128.797	0.00	0.00		C
ATOM	20208	C	ASP	B	591	-6.936	74.684	128.712	0.00	0.00		C
ATOM	20209	O	ASP	B	591	-7.926	74.192	129.303	0.00	0.00		O
ATOM	20210	CB	ASP	B	591	-6.787	76.867	127.420	0.00	0.00		C
ATOM	20211	CG	ASP	B	591	-8.126	76.748	126.824	0.00	0.00		C
ATOM	20212	OD1	ASP	B	591	-9.075	77.462	127.216	0.00	0.00		O
ATOM	20213	OD2	ASP	B	591	-8.352	75.909	125.929	0.00	0.00		O
ATOM	20214	HN	ASP	B	591	-4.638	76.446	128.706	0.00	0.00		H
ATOM	20215	HCA	ASP	B	591	-7.430	76.603	129.460	0.00	0.00		H
ATOM	20216	HCN	ASP	B	591	-6.560	77.928	127.538	0.00	0.00		H
ATOM	20217	HCN	ASP	B	591	-6.052	76.452	126.727	0.00	0.00		H
ATOM	20218	N	ALA	B	592	-6.099	73.903	127.988	0.00	0.00		N
ATOM	20219	CA	ALA	B	592	-6.243	72.496	127.743	0.00	0.00		C
ATOM	20220	C	ALA	B	592	-4.972	71.752	127.972	0.00	0.00		C
ATOM	20221	O	ALA	B	592	-3.904	72.176	127.465	0.00	0.00		O
ATOM	20222	CB	ALA	B	592	-6.737	72.325	126.286	0.00	0.00		C
ATOM	20223	HN	ALA	B	592	-5.350	74.352	127.570	0.00	0.00		H
ATOM	20224	HCA	ALA	B	592	-7.014	72.067	128.393	0.00	0.00		H
ATOM	20225	HCN	ALA	B	592	-7.689	72.844	126.148	0.00	0.00		H
ATOM	20226	HCN	ALA	B	592	-6.015	72.735	125.576	0.00	0.00		H
ATOM	20227	HCN	ALA	B	592	-6.891	71.268	126.060	0.00	0.00		H
ATOM	20228	N	ALA	B	593	-4.989	70.592	128.675	0.00	0.00		N
ATOM	20229	CA	ALA	B	593	-3.903	69.660	128.800	0.00	0.00		C
ATOM	20230	C	ALA	B	593	-4.292	68.368	128.171	0.00	0.00		C
ATOM	20231	O	ALA	B	593	-5.202	67.685	128.700	0.00	0.00		O
ATOM	20232	CB	ALA	B	593	-3.488	69.499	130.280	0.00	0.00		C
ATOM	20233	HN	ALA	B	593	-5.828	70.350	129.095	0.00	0.00		H
ATOM	20234	HCA	ALA	B	593	-3.025	70.039	128.285	0.00	0.00		H
ATOM	20235	HCN	ALA	B	593	-3.219	70.470	130.702	0.00	0.00		H
ATOM	20236	HCN	ALA	B	593	-4.303	69.073	130.863	0.00	0.00		H
ATOM	20237	HCN	ALA	B	593	-2.622	68.840	130.362	0.00	0.00		H
ATOM	20238	N	TYR	B	594	-3.684	67.945	127.039	0.00	0.00		N

ATOM	20239	CA	TYR	B	594	-3.996	66.750	126.295	0.00	0.00	C
ATOM	20240	C	TYR	B	594	-3.164	65.604	126.743	0.00	0.00	C
ATOM	20241	O	TYR	B	594	-1.916	65.682	126.631	0.00	0.00	O
ATOM	20242	CB	TYR	B	594	-3.824	66.995	124.765	0.00	0.00	C
ATOM	20243	CG	TYR	B	594	-4.707	68.060	124.223	0.00	0.00	C
ATOM	20244	CD1	TYR	B	594	-6.111	67.922	124.307	0.00	0.00	C
ATOM	20245	CD2	TYR	B	594	-4.173	69.224	123.618	0.00	0.00	C
ATOM	20246	CE1	TYR	B	594	-6.958	68.954	123.873	0.00	0.00	C
ATOM	20247	CE2	TYR	B	594	-5.025	70.246	123.155	0.00	0.00	C
ATOM	20248	CZ	TYR	B	594	-6.414	70.127	123.323	0.00	0.00	C
ATOM	20249	OH	TYR	B	594	-7.245	71.141	123.004	0.00	0.00	O
ATOM	20250	HN	TYR	B	594	-2.989	68.520	126.718	0.00	0.00	H
ATOM	20251	HCA	TYR	B	594	-5.043	66.482	126.468	0.00	0.00	H
ATOM	20252	HCB	TYR	B	594	-2.780	67.232	124.559	0.00	0.00	H
ATOM	20253	HCB	TYR	B	594	-4.044	66.071	124.229	0.00	0.00	H
ATOM	20254	HCD1	TYR	B	594	-6.530	67.074	124.695	0.00	0.00	H
ATOM	20255	HCD2	TYR	B	594	-3.162	69.343	123.520	0.00	0.00	H
ATOM	20256	HCE1	TYR	B	594	-7.969	68.846	123.966	0.00	0.00	H
ATOM	20257	HCE2	TYR	B	594	-4.636	71.082	122.720	0.00	0.00	H
ATOM	20258	HOH	TYR	B	594	-8.141	71.059	123.368	0.00	0.00	H
ATOM	20259	N	ILE	B	595	-3.751	64.503	127.280	0.00	0.00	N
ATOM	20260	CA	ILE	B	595	-3.075	63.341	127.807	0.00	0.00	C
ATOM	20261	C	ILE	B	595	-3.678	62.063	127.338	0.00	0.00	C
ATOM	20262	O	ILE	B	595	-4.754	62.059	126.695	0.00	0.00	O
ATOM	20263	CB	ILE	B	595	-2.894	63.428	129.366	0.00	0.00	C
ATOM	20264	CG1	ILE	B	595	-4.096	62.937	130.233	0.00	0.00	C
ATOM	20265	CG2	ILE	B	595	-2.422	64.837	129.831	0.00	0.00	C
ATOM	20266	CD1	ILE	B	595	-5.457	63.508	129.815	0.00	0.00	C
ATOM	20267	HN	ILE	B	595	-4.718	64.508	127.336	0.00	0.00	H
ATOM	20268	HCA	ILE	B	595	-2.079	63.310	127.383	0.00	0.00	H
ATOM	20269	HCB	ILE	B	595	-2.074	62.745	129.606	0.00	0.00	H
ATOM	20270	HCD1	ILE	B	595	-5.388	64.574	129.627	0.00	0.00	H
ATOM	20271	HCD1	ILE	B	595	-5.790	63.023	128.902	0.00	0.00	H
ATOM	20272	HCD1	ILE	B	595	-6.186	63.325	130.606	0.00	0.00	H
ATOM	20273	HCG1	ILE	B	595	-4.159	61.847	130.185	0.00	0.00	H
ATOM	20274	HCG1	ILE	B	595	-3.929	63.192	131.282	0.00	0.00	H
ATOM	20275	HCG2	ILE	B	595	-1.518	65.122	129.291	0.00	0.00	H
ATOM	20276	HCG2	ILE	B	595	-3.185	65.594	129.648	0.00	0.00	H
ATOM	20277	HCG2	ILE	B	595	-2.204	64.846	130.897	0.00	0.00	H
ATOM	20278	N	PHE	B	596	-3.043	60.894	127.587	0.00	0.00	N
ATOM	20279	CA	PHE	B	596	-3.487	59.599	127.153	0.00	0.00	C
ATOM	20280	C	PHE	B	596	-4.722	59.169	127.863	0.00	0.00	C
ATOM	20281	O	PHE	B	596	-5.716	58.768	127.213	0.00	0.00	O
ATOM	20282	CB	PHE	B	596	-2.307	58.608	127.366	0.00	0.00	C
ATOM	20283	CG	PHE	B	596	-2.595	57.220	126.916	0.00	0.00	C
ATOM	20284	CD1	PHE	B	596	-2.771	56.934	125.542	0.00	0.00	C
ATOM	20285	CD2	PHE	B	596	-2.698	56.162	127.850	0.00	0.00	C
ATOM	20286	CE1	PHE	B	596	-3.077	55.628	125.116	0.00	0.00	C
ATOM	20287	CE2	PHE	B	596	-3.003	54.857	127.425	0.00	0.00	C
ATOM	20288	CZ	PHE	B	596	-3.205	54.594	126.059	0.00	0.00	C
ATOM	20289	HN	PHE	B	596	-2.233	60.931	128.119	0.00	0.00	H
ATOM	20290	HCA	PHE	B	596	-3.699	59.648	126.081	0.00	0.00	H
ATOM	20291	HCB	PHE	B	596	-1.426	58.968	126.827	0.00	0.00	H
ATOM	20292	HCB	PHE	B	596	-2.047	58.609	128.427	0.00	0.00	H
ATOM	20293	HCD1	PHE	B	596	-2.679	57.675	124.843	0.00	0.00	H
ATOM	20294	HCD2	PHE	B	596	-2.560	56.338	128.847	0.00	0.00	H
ATOM	20295	HCE1	PHE	B	596	-3.210	55.432	124.121	0.00	0.00	H
ATOM	20296	HCE2	PHE	B	596	-3.081	54.100	128.109	0.00	0.00	H
ATOM	20297	HCZ	PHE	B	596	-3.444	53.649	125.751	0.00	0.00	H
ATOM	20298	N	GLU	B	597	-4.752	59.192	129.212	0.00	0.00	N
ATOM	20299	CA	GLU	B	597	-5.787	58.706	130.072	0.00	0.00	C
ATOM	20300	C	GLU	B	597	-7.126	59.355	129.933	0.00	0.00	C
ATOM	20301	O	GLU	B	597	-8.089	58.834	130.543	0.00	0.00	O
ATOM	20302	CB	GLU	B	597	-5.244	58.777	131.535	0.00	0.00	C
ATOM	20303	CG	GLU	B	597	-3.835	58.125	131.751	0.00	0.00	C
ATOM	20304	CD	GLU	B	597	-2.691	59.062	131.743	0.00	0.00	C
ATOM	20305	OE1	GLU	B	597	-2.508	59.890	130.823	0.00	0.00	O
ATOM	20306	OE2	GLU	B	597	-1.849	59.050	132.665	0.00	0.00	O
ATOM	20307	HN	GLU	B	597	-3.966	59.494	129.667	0.00	0.00	H
ATOM	20308	HCA	GLU	B	597	-5.926	57.648	129.826	0.00	0.00	H
ATOM	20309	HCB	GLU	B	597	-5.222	59.820	131.867	0.00	0.00	H
ATOM	20310	HCB	GLU	B	597	-5.956	58.252	132.179	0.00	0.00	H
ATOM	20311	HCG	GLU	B	597	-3.838	57.602	132.709	0.00	0.00	H
ATOM	20312	HCG	GLU	B	597	-3.647	57.369	130.988	0.00	0.00	H
ATOM	20313	N	GLU	B	598	-7.337	60.440	129.147	0.00	0.00	N
ATOM	20314	CA	GLU	B	598	-8.613	61.015	128.802	0.00	0.00	C
ATOM	20315	C	GLU	B	598	-8.683	60.995	127.306	0.00	0.00	C
ATOM	20316	O	GLU	B	598	-8.165	61.963	126.696	0.00	0.00	O
ATOM	20317	CB	GLU	B	598	-8.756	62.427	129.446	0.00	0.00	C
ATOM	20318	CG	GLU	B	598	-10.138	63.114	129.277	0.00	0.00	C

ATOM	20319	CD	GLU	B	598	-10.141	64.449	129.900	0.00	0.00		C
ATOM	20320	OE1	GLU	B	598	-10.188	64.605	131.136	0.00	0.00		O
ATOM	20321	OE2	GLU	B	598	-10.014	65.506	129.249	0.00	0.00		O
ATOM	20322	HN	GLU	B	598	-6.556	60.833	128.727	0.00	0.00		H
ATOM	20323	HCA	GLU	B	598	-9.433	60.424	129.211	0.00	0.00		H
ATOM	20324	HCB	GLU	B	598	-8.536	62.342	130.515	0.00	0.00		H
ATOM	20325	HCB	GLU	B	598	-8.023	63.096	129.000	0.00	0.00		H
ATOM	20326	HCG	GLU	B	598	-10.365	63.222	128.214	0.00	0.00		H
ATOM	20327	HCG	GLU	B	598	-10.923	62.510	129.735	0.00	0.00		H
ATOM	20328	N	PRO	B	599	-9.193	59.959	126.564	0.00	0.00		N
ATOM	20329	CA	PRO	B	599	-9.129	59.924	125.122	0.00	0.00		C
ATOM	20330	C	PRO	B	599	-9.993	60.932	124.509	0.00	0.00		C
ATOM	20331	O	PRO	B	599	-11.192	60.934	124.759	0.00	0.00		O
ATOM	20332	CB	PRO	B	599	-9.496	58.467	124.747	0.00	0.00		C
ATOM	20333	CG	PRO	B	599	-10.350	57.987	125.926	0.00	0.00		C
ATOM	20334	CD	PRO	B	599	-9.798	58.783	127.120	0.00	0.00		C
ATOM	20335	HCA	PRO	B	599	-8.090	60.089	124.811	0.00	0.00		H
ATOM	20336	HCB	PRO	B	599	-10.035	58.391	123.797	0.00	0.00		H
ATOM	20337	HCB	PRO	B	599	-8.589	57.856	124.683	0.00	0.00		H
ATOM	20338	HCD	PRO	B	599	-10.618	59.027	127.801	0.00	0.00		H
ATOM	20339	HCD	PRO	B	599	-9.044	58.194	127.652	0.00	0.00		H
ATOM	20340	HCG	PRO	B	599	-11.401	58.242	125.754	0.00	0.00		H
ATOM	20341	HCG	PRO	B	599	-10.264	56.908	126.080	0.00	0.00		H
ATOM	20342	N	PHE	B	600	-9.465	61.843	123.711	0.00	0.00		N
ATOM	20343	CA	PHE	B	600	-10.118	62.977	123.114	0.00	0.00		C
ATOM	20344	C	PHE	B	600	-10.148	62.868	121.628	0.00	0.00		C
ATOM	20345	O	PHE	B	600	-9.177	62.349	121.026	0.00	0.00		O
ATOM	20346	CB	PHE	B	600	-9.433	64.289	123.610	0.00	0.00		C
ATOM	20347	CG	PHE	B	600	-8.068	64.550	123.069	0.00	0.00		C
ATOM	20348	CD1	PHE	B	600	-6.952	63.808	123.523	0.00	0.00		C
ATOM	20349	CD2	PHE	B	600	-7.860	65.549	122.088	0.00	0.00		C
ATOM	20350	CE1	PHE	B	600	-5.672	64.031	122.984	0.00	0.00		C
ATOM	20351	CE2	PHE	B	600	-6.576	65.790	121.566	0.00	0.00		C
ATOM	20352	CZ	PHE	B	600	-5.483	65.022	122.004	0.00	0.00		C
ATOM	20353	HN	PHE	B	600	-8.521	61.746	123.520	0.00	0.00		H
ATOM	20354	HCA	PHE	B	600	-11.157	63.025	123.457	0.00	0.00		H
ATOM	20355	HCB	PHE	B	600	-10.093	65.123	123.359	0.00	0.00		H
ATOM	20356	HCB	PHE	B	600	-9.378	64.276	124.703	0.00	0.00		H
ATOM	20357	HCD1	PHE	B	600	-7.061	63.102	124.255	0.00	0.00		H
ATOM	20358	HCD2	PHE	B	600	-8.644	66.109	121.746	0.00	0.00		H
ATOM	20359	HCE1	PHE	B	600	-4.879	63.476	123.312	0.00	0.00		H
ATOM	20360	HCE2	PHE	B	600	-6.438	66.521	120.864	0.00	0.00		H
ATOM	20361	HCZ	PHE	B	600	-4.552	65.190	121.617	0.00	0.00		H
ATOM	20362	N	THR	B	601	-11.211	63.346	120.938	0.00	0.00		N
ATOM	20363	CA	THR	B	601	-11.392	63.336	119.501	0.00	0.00		C
ATOM	20364	C	THR	B	601	-11.196	64.689	118.911	0.00	0.00		C
ATOM	20365	O	THR	B	601	-11.328	65.727	119.605	0.00	0.00		O
ATOM	20366	CB	THR	B	601	-12.767	62.698	119.067	0.00	0.00		C
ATOM	20367	CG2	THR	B	601	-13.911	62.746	120.104	0.00	0.00		C
ATOM	20368	OG1	THR	B	601	-13.312	63.297	117.884	0.00	0.00		O
ATOM	20369	HN	THR	B	601	-11.908	63.738	121.471	0.00	0.00		H
ATOM	20370	HCA	THR	B	601	-10.620	62.707	119.051	0.00	0.00		H
ATOM	20371	HCB	THR	B	601	-12.589	61.640	118.843	0.00	0.00		H
ATOM	20372	HCG2	THR	B	601	-14.147	63.779	120.350	0.00	0.00		H
ATOM	20373	HCG2	THR	B	601	-14.809	62.271	119.705	0.00	0.00		H
ATOM	20374	HCG2	THR	B	601	-13.628	62.216	121.014	0.00	0.00		H
ATOM	20375	HOG1	THR	B	601	-14.079	62.730	117.645	0.00	0.00		H
ATOM	20376	N	ILE	B	602	-10.929	64.796	117.583	0.00	0.00		N
ATOM	20377	CA	ILE	B	602	-11.130	65.953	116.747	0.00	0.00		C
ATOM	20378	C	ILE	B	602	-12.329	66.773	117.103	0.00	0.00		C
ATOM	20379	O	ILE	B	602	-12.255	68.018	116.999	0.00	0.00		O
ATOM	20380	CB	ILE	B	602	-11.096	65.558	115.227	0.00	0.00		C
ATOM	20381	CG1	ILE	B	602	-11.091	66.770	114.236	0.00	0.00		C
ATOM	20382	CG2	ILE	B	602	-12.233	64.569	114.838	0.00	0.00		C
ATOM	20383	CD1	ILE	B	602	-9.906	67.753	114.402	0.00	0.00		C
ATOM	20384	HN	ILE	B	602	-10.517	64.039	117.163	0.00	0.00		H
ATOM	20385	HCA	ILE	B	602	-10.241	66.554	116.917	0.00	0.00		H
ATOM	20386	HCB	ILE	B	602	-10.154	65.025	115.057	0.00	0.00		H
ATOM	20387	HCD1	ILE	B	602	-10.004	68.329	115.324	0.00	0.00		H
ATOM	20388	HCD1	ILE	B	602	-8.959	67.212	114.418	0.00	0.00		H
ATOM	20389	HCD1	ILE	B	602	-9.888	68.457	113.568	0.00	0.00		H
ATOM	20390	HCG1	ILE	B	602	-11.045	66.384	113.213	0.00	0.00		H
ATOM	20391	HCG1	ILE	B	602	-12.026	67.330	114.325	0.00	0.00		H
ATOM	20392	HCG2	ILE	B	602	-12.198	63.675	115.461	0.00	0.00		H
ATOM	20393	HCG2	ILE	B	602	-13.212	65.037	114.952	0.00	0.00		H
ATOM	20394	HCG2	ILE	B	602	-12.124	64.249	113.799	0.00	0.00		H
ATOM	20395	N	ARG	B	603	-13.463	66.210	117.590	0.00	0.00		N
ATOM	20396	CA	ARG	B	603	-14.625	66.941	118.039	0.00	0.00		C
ATOM	20397	C	ARG	B	603	-14.319	67.759	119.253	0.00	0.00		C
ATOM	20398	O	ARG	B	603	-14.480	69.006	119.230	0.00	0.00		O



ATOM	20399	CB	ARG	B	603	-15.810	65.970	118.313	0.00	0.00		C
ATOM	20400	CG	ARG	B	603	-16.262	65.140	117.079	0.00	0.00		C
ATOM	20401	CD	ARG	B	603	-17.375	64.125	117.434	0.00	0.00		C
ATOM	20402	NE	ARG	B	603	-17.673	63.306	116.305	0.00	0.00		N
ATOM	20403	CZ	ARG	B	603	-18.534	62.285	116.296	0.00	0.00		C
ATOM	20404	NH1	ARG	B	603	-19.243	61.904	117.349	0.00	0.00		N
ATOM	20405	NH2	ARG	B	603	-18.693	61.604	115.175	0.00	0.00		N
ATOM	20406	HN	ARG	B	603	-13.454	65.253	117.680	0.00	0.00		H
ATOM	20407	HNE	ARG	B	603	-17.220	63.497	115.473	0.00	0.00		H
ATOM	20408	HNH1	ARG	B	603	-19.154	62.378	118.184	0.00	0.00		H
ATOM	20409	HNH1	ARG	B	603	-19.846	61.154	117.277	0.00	0.00		H
ATOM	20410	HNH2	ARG	B	603	-18.192	61.848	114.388	0.00	0.00		H
ATOM	20411	HNH2	ARG	B	603	-19.308	60.861	115.149	0.00	0.00		H
ATOM	20412	HCA	ARG	B	603	-14.937	67.617	117.235	0.00	0.00		H
ATOM	20413	HCB	ARG	B	603	-15.530	65.286	119.116	0.00	0.00		H
ATOM	20414	HCB	ARG	B	603	-16.667	66.554	118.664	0.00	0.00		H
ATOM	20415	HCD	ARG	B	603	-17.037	63.493	118.262	0.00	0.00		H
ATOM	20416	HCD	ARG	B	603	-18.274	64.664	117.749	0.00	0.00		H
ATOM	20417	HCG	ARG	B	603	-16.629	65.817	116.301	0.00	0.00		H
ATOM	20418	HCG	ARG	B	603	-15.408	64.593	116.673	0.00	0.00		H
ATOM	20419	N	ASP	B	604	-13.829	67.155	120.365	0.00	0.00		N
ATOM	20420	CA	ASP	B	604	-13.403	67.809	121.573	0.00	0.00		C
ATOM	20421	C	ASP	B	604	-12.361	68.828	121.289	0.00	0.00		C
ATOM	20422	O	ASP	B	604	-12.454	69.981	121.764	0.00	0.00		O
ATOM	20423	CB	ASP	B	604	-12.833	66.782	122.595	0.00	0.00		C
ATOM	20424	CG	ASP	B	604	-13.695	65.622	122.841	0.00	0.00		C
ATOM	20425	OD1	ASP	B	604	-14.862	65.758	123.262	0.00	0.00		O
ATOM	20426	OD2	ASP	B	604	-13.266	64.468	122.627	0.00	0.00		O
ATOM	20427	HN	ASP	B	604	-13.732	66.191	120.339	0.00	0.00		H
ATOM	20428	HCA	ASP	B	604	-14.274	68.297	122.026	0.00	0.00		H
ATOM	20429	HCB	ASP	B	604	-11.862	66.421	122.248	0.00	0.00		H
ATOM	20430	HCB	ASP	B	604	-12.673	67.280	123.555	0.00	0.00		H
ATOM	20431	N	LEU	B	605	-11.328	68.503	120.483	0.00	0.00		N
ATOM	20432	CA	LEU	B	605	-10.290	69.397	120.063	0.00	0.00		C
ATOM	20433	C	LEU	B	605	-10.833	70.592	119.350	0.00	0.00		C
ATOM	20434	O	LEU	B	605	-10.518	71.727	119.773	0.00	0.00		O
ATOM	20435	CB	LEU	B	605	-9.294	68.568	119.213	0.00	0.00		C
ATOM	20436	CG	LEU	B	605	-8.089	69.335	118.600	0.00	0.00		C
ATOM	20437	CD1	LEU	B	605	-7.187	70.007	119.666	0.00	0.00		C
ATOM	20438	CD2	LEU	B	605	-7.267	68.372	117.701	0.00	0.00		C
ATOM	20439	HN	LEU	B	605	-11.308	67.596	120.170	0.00	0.00		H
ATOM	20440	HCA	LEU	B	605	-9.765	69.726	120.965	0.00	0.00		H
ATOM	20441	HCB	LEU	B	605	-8.915	67.741	119.819	0.00	0.00		H
ATOM	20442	HCB	LEU	B	605	-9.864	68.141	118.395	0.00	0.00		H
ATOM	20443	HCD1	LEU	B	605	-6.816	69.269	120.378	0.00	0.00		H
ATOM	20444	HCD1	LEU	B	605	-6.339	70.498	119.187	0.00	0.00		H
ATOM	20445	HCD1	LEU	B	605	-7.739	70.773	120.211	0.00	0.00		H
ATOM	20446	HCD2	LEU	B	605	-6.828	67.567	118.293	0.00	0.00		H
ATOM	20447	HCD2	LEU	B	605	-7.904	67.928	116.935	0.00	0.00		H
ATOM	20448	HCD2	LEU	B	605	-6.467	68.911	117.193	0.00	0.00		H
ATOM	20449	HCG	LEU	B	605	-8.491	70.125	117.962	0.00	0.00		H
ATOM	20450	N	GLN	B	606	-11.689	70.503	118.300	0.00	0.00		N
ATOM	20451	CA	GLN	B	606	-12.348	71.623	117.677	0.00	0.00		C
ATOM	20452	C	GLN	B	606	-13.097	72.430	118.647	0.00	0.00		C
ATOM	20453	O	GLN	B	606	-12.911	73.641	118.662	0.00	0.00		O
ATOM	20454	CB	GLN	B	606	-13.267	71.144	116.513	0.00	0.00		C
ATOM	20455	CG	GLN	B	606	-13.747	72.310	115.594	0.00	0.00		C
ATOM	20456	CD	GLN	B	606	-14.955	71.984	114.817	0.00	0.00		C
ATOM	20457	NE2	GLN	B	606	-16.119	72.596	115.060	0.00	0.00		N
ATOM	20458	OE1	GLN	B	606	-14.929	71.129	113.907	0.00	0.00		O
ATOM	20459	HN	GLN	B	606	-11.873	69.640	117.935	0.00	0.00		H
ATOM	20460	HNE2	GLN	B	606	-16.171	73.245	115.763	0.00	0.00		H
ATOM	20461	HNE2	GLN	B	606	-16.900	72.375	114.534	0.00	0.00		H
ATOM	20462	HCA	GLN	B	606	-11.558	72.235	117.227	0.00	0.00		H
ATOM	20463	HCB	GLN	B	606	-12.720	70.430	115.890	0.00	0.00		H
ATOM	20464	HCB	GLN	B	606	-14.129	70.615	116.934	0.00	0.00		H
ATOM	20465	HCG	GLN	B	606	-13.960	73.194	116.195	0.00	0.00		H
ATOM	20466	HCG	GLN	B	606	-12.950	72.582	114.899	0.00	0.00		H
ATOM	20467	N	ALA	B	607	-13.926	71.874	119.518	0.00	0.00		N
ATOM	20468	CA	ALA	B	607	-14.613	72.586	120.569	0.00	0.00		C
ATOM	20469	C	ALA	B	607	-13.689	73.380	121.436	0.00	0.00		C
ATOM	20470	O	ALA	B	607	-13.941	74.588	121.644	0.00	0.00		O
ATOM	20471	CB	ALA	B	607	-15.476	71.600	121.391	0.00	0.00		C
ATOM	20472	HN	ALA	B	607	-14.081	70.929	119.439	0.00	0.00		H
ATOM	20473	HCA	ALA	B	607	-15.311	73.279	120.084	0.00	0.00		H
ATOM	20474	HCB	ALA	B	607	-14.855	70.883	121.926	0.00	0.00		H
ATOM	20475	HCB	ALA	B	607	-16.079	72.146	122.121	0.00	0.00		H
ATOM	20476	HCB	ALA	B	607	-16.153	71.050	120.733	0.00	0.00		H
ATOM	20477	N	ASN	B	608	-12.559	72.835	121.947	0.00	0.00		N
ATOM	20478	CA	ASN	B	608	-11.511	73.547	122.639	0.00	0.00		C



ATOM	20559	CA	VAL	B	613	-10.894	81.586	120.061	0.00	0.00	C
ATOM	20560	C	VAL	B	613	-11.874	82.528	120.694	0.00	0.00	C
ATOM	20561	O	VAL	B	613	-11.548	83.735	120.775	0.00	0.00	O
ATOM	20562	CB	VAL	B	613	-11.324	81.085	118.635	0.00	0.00	C
ATOM	20563	CG1	VAL	B	613	-11.985	82.178	117.745	0.00	0.00	C
ATOM	20564	CG2	VAL	B	613	-10.127	80.471	117.853	0.00	0.00	C
ATOM	20565	HN	VAL	B	613	-10.652	79.589	120.581	0.00	0.00	H
ATOM	20566	HCA	VAL	B	613	-9.958	82.138	119.926	0.00	0.00	H
ATOM	20567	HCB	VAL	B	613	-12.066	80.296	118.764	0.00	0.00	H
ATOM	20568	HCG1	VAL	B	613	-11.317	83.031	117.628	0.00	0.00	H
ATOM	20569	HCG1	VAL	B	613	-12.222	81.782	116.755	0.00	0.00	H
ATOM	20570	HCG1	VAL	B	613	-12.918	82.528	118.190	0.00	0.00	H
ATOM	20571	HCG2	VAL	B	613	-9.406	81.246	117.585	0.00	0.00	H
ATOM	20572	HCG2	VAL	B	613	-9.613	79.717	118.449	0.00	0.00	H
ATOM	20573	HCG2	VAL	B	613	-10.474	79.990	116.935	0.00	0.00	H
ATOM	20574	N	GLN	B	614	-13.059	82.126	121.225	0.00	0.00	N
ATOM	20575	CA	GLN	B	614	-13.986	83.008	121.914	0.00	0.00	C
ATOM	20576	C	GLN	B	614	-13.356	83.769	123.002	0.00	0.00	C
ATOM	20577	O	GLN	B	614	-13.500	84.985	123.050	0.00	0.00	O
ATOM	20578	CB	GLN	B	614	-15.269	82.305	122.466	0.00	0.00	C
ATOM	20579	CG	GLN	B	614	-16.070	81.380	121.505	0.00	0.00	C
ATOM	20580	CD	GLN	B	614	-16.108	81.802	120.093	0.00	0.00	C
ATOM	20581	NE2	GLN	B	614	-15.321	81.191	119.205	0.00	0.00	N
ATOM	20582	OE1	GLN	B	614	-16.850	82.725	119.696	0.00	0.00	O
ATOM	20583	HN	GLN	B	614	-13.278	81.202	121.098	0.00	0.00	H
ATOM	20584	HNE2	GLN	B	614	-14.723	80.529	119.544	0.00	0.00	H
ATOM	20585	HNE2	GLN	B	614	-15.343	81.436	118.270	0.00	0.00	H
ATOM	20586	HCA	GLN	B	614	-14.332	83.726	121.162	0.00	0.00	H
ATOM	20587	HCB	GLN	B	614	-15.009	81.713	123.349	0.00	0.00	H
ATOM	20588	HCB	GLN	B	614	-15.954	83.090	122.807	0.00	0.00	H
ATOM	20589	HCG	GLN	B	614	-15.651	80.376	121.568	0.00	0.00	H
ATOM	20590	HCG	GLN	B	614	-17.099	81.296	121.861	0.00	0.00	H
ATOM	20591	N	LYS	B	615	-12.632	83.150	123.918	0.00	0.00	N
ATOM	20592	CA	LYS	B	615	-11.897	83.791	124.989	0.00	0.00	C
ATOM	20593	C	LYS	B	615	-10.881	84.791	124.516	0.00	0.00	C
ATOM	20594	O	LYS	B	615	-10.875	85.968	124.965	0.00	0.00	O
ATOM	20595	CB	LYS	B	615	-11.243	82.670	125.851	0.00	0.00	C
ATOM	20596	CG	LYS	B	615	-12.259	81.857	126.701	0.00	0.00	C
ATOM	20597	CD	LYS	B	615	-11.686	80.548	127.306	0.00	0.00	C
ATOM	20598	CE	LYS	B	615	-10.475	80.739	128.247	0.00	0.00	C
ATOM	20599	NZ	LYS	B	615	-10.148	79.487	128.933	0.00	0.00	N
ATOM	20600	HN	LYS	B	615	-12.609	82.187	123.853	0.00	0.00	H
ATOM	20601	HNZ	LYS	B	615	-9.782	78.808	128.286	0.00	0.00	H
ATOM	20602	HNZ	LYS	B	615	-9.441	79.659	129.648	0.00	0.00	H
ATOM	20603	HNZ	LYS	B	615	-10.969	79.095	129.360	0.00	0.00	H
ATOM	20604	HCA	LYS	B	615	-12.612	84.324	125.624	0.00	0.00	H
ATOM	20605	HCB	LYS	B	615	-10.686	81.992	125.203	0.00	0.00	H
ATOM	20606	HCB	LYS	B	615	-10.524	83.120	126.530	0.00	0.00	H
ATOM	20607	HCD	LYS	B	615	-12.490	80.075	127.873	0.00	0.00	H
ATOM	20608	HCD	LYS	B	615	-11.405	79.868	126.496	0.00	0.00	H
ATOM	20609	HCE	LYS	B	615	-9.600	81.058	127.677	0.00	0.00	H
ATOM	20610	HCE	LYS	B	615	-10.706	81.496	129.000	0.00	0.00	H
ATOM	20611	HCG	LYS	B	615	-12.637	82.493	127.508	0.00	0.00	H
ATOM	20612	HCG	LYS	B	615	-13.115	81.582	126.077	0.00	0.00	H
ATOM	20613	N	MET	B	616	-9.973	84.421	123.585	0.00	0.00	N
ATOM	20614	CA	MET	B	616	-8.954	85.234	122.981	0.00	0.00	C
ATOM	20615	C	MET	B	616	-9.521	86.428	122.305	0.00	0.00	C
ATOM	20616	O	MET	B	616	-8.960	87.533	122.465	0.00	0.00	O
ATOM	20617	CB	MET	B	616	-8.110	84.396	121.977	0.00	0.00	C
ATOM	20618	CG	MET	B	616	-7.273	83.262	122.627	0.00	0.00	C
ATOM	20619	SD	MET	B	616	-5.906	83.799	123.677	0.00	0.00	S
ATOM	20620	CE	MET	B	616	-4.773	84.340	122.391	0.00	0.00	C
ATOM	20621	HN	MET	B	616	-10.022	83.516	123.293	0.00	0.00	H
ATOM	20622	HCA	MET	B	616	-8.285	85.572	123.773	0.00	0.00	H
ATOM	20623	HCB	MET	B	616	-8.784	83.946	121.244	0.00	0.00	H
ATOM	20624	HCB	MET	B	616	-7.436	85.054	121.424	0.00	0.00	H
ATOM	20625	HCE	MET	B	616	-4.668	83.583	121.619	0.00	0.00	H
ATOM	20626	HCE	MET	B	616	-5.126	85.269	121.952	0.00	0.00	H
ATOM	20627	HCE	MET	B	616	-3.807	84.501	122.857	0.00	0.00	H
ATOM	20628	HCG	MET	B	616	-7.909	82.671	123.277	0.00	0.00	H
ATOM	20629	HCG	MET	B	616	-6.888	82.597	121.852	0.00	0.00	H
ATOM	20630	N	LYS	B	617	-10.641	86.349	121.550	0.00	0.00	N
ATOM	20631	CA	LYS	B	617	-11.347	87.473	121.001	0.00	0.00	C
ATOM	20632	C	LYS	B	617	-11.814	88.471	122.008	0.00	0.00	C
ATOM	20633	O	LYS	B	617	-12.309	89.534	121.554	0.00	0.00	O
ATOM	20634	CB	LYS	B	617	-12.551	86.967	120.143	0.00	0.00	C
ATOM	20635	CG	LYS	B	617	-12.137	86.343	118.785	0.00	0.00	C
ATOM	20636	CD	LYS	B	617	-13.338	85.830	117.942	0.00	0.00	C
ATOM	20637	CE	LYS	B	617	-14.152	86.962	117.267	0.00	0.00	C
ATOM	20638	NZ	LYS	B	617	-15.182	86.402	116.389	0.00	0.00	N

ATOM	20639	HN	LYS	B	617	-10.976	85.475	121.357	0.00	0.00	H
ATOM	20640	HNZ	LYS	B	617	-15.818	85.821	116.933	0.00	0.00	H
ATOM	20641	HNZ	LYS	B	617	-15.707	87.160	115.953	0.00	0.00	H
ATOM	20642	HNZ	LYS	B	617	-14.743	85.837	115.663	0.00	0.00	H
ATOM	20643	HCA	LYS	B	617	-10.652	88.004	120.342	0.00	0.00	H
ATOM	20644	HCB	LYS	B	617	-13.125	86.239	120.721	0.00	0.00	H
ATOM	20645	HCB	LYS	B	617	-13.219	87.803	119.923	0.00	0.00	H
ATOM	20646	HCD	LYS	B	617	-12.951	85.173	117.159	0.00	0.00	H
ATOM	20647	HCD	LYS	B	617	-13.999	85.229	118.573	0.00	0.00	H
ATOM	20648	HCE	LYS	B	617	-14.643	87.582	118.019	0.00	0.00	H
ATOM	20649	HCE	LYS	B	617	-13.493	87.594	116.667	0.00	0.00	H
ATOM	20650	HCG	LYS	B	617	-11.576	87.084	118.208	0.00	0.00	H
ATOM	20651	HCG	LYS	B	617	-11.465	85.504	118.971	0.00	0.00	H
ATOM	20652	N	THR	B	618	-11.764	88.314	123.359	0.00	0.00	N
ATOM	20653	CA	THR	B	618	-12.221	89.309	124.303	0.00	0.00	C
ATOM	20654	C	THR	B	618	-11.289	89.393	125.453	0.00	0.00	C
ATOM	20655	O	THR	B	618	-10.343	90.220	125.395	0.00	0.00	O
ATOM	20656	CB	THR	B	618	-13.724	89.045	124.647	0.00	0.00	C
ATOM	20657	CG2	THR	B	618	-14.337	90.013	125.686	0.00	0.00	C
ATOM	20658	OG1	THR	B	618	-14.503	89.198	123.456	0.00	0.00	O
ATOM	20659	HN	THR	B	618	-11.432	87.492	123.738	0.00	0.00	H
ATOM	20660	HCA	THR	B	618	-12.197	90.307	123.850	0.00	0.00	H
ATOM	20661	HCB	THR	B	618	-13.842	88.016	125.003	0.00	0.00	H
ATOM	20662	HCG2	THR	B	618	-14.233	91.046	125.352	0.00	0.00	H
ATOM	20663	HCG2	THR	B	618	-15.398	89.793	125.814	0.00	0.00	H
ATOM	20664	HCG2	THR	B	618	-13.851	89.906	126.656	0.00	0.00	H
ATOM	20665	HOG1	THR	B	618	-13.828	89.284	122.768	0.00	0.00	H
ATOM	20666	N	THR	B	619	-11.462	88.626	126.555	0.00	0.00	N
ATOM	20667	CA	THR	B	619	-10.751	88.806	127.792	0.00	0.00	C
ATOM	20668	C	THR	B	619	-9.403	88.192	127.807	0.00	0.00	C
ATOM	20669	O	THR	B	619	-8.546	88.717	128.560	0.00	0.00	O
ATOM	20670	CB	THR	B	619	-11.611	88.356	129.010	0.00	0.00	C
ATOM	20671	CG2	THR	B	619	-11.840	86.832	129.136	0.00	0.00	C
ATOM	20672	OG1	THR	B	619	-10.985	88.802	130.211	0.00	0.00	O
ATOM	20673	HN	THR	B	619	-12.127	87.924	126.509	0.00	0.00	H
ATOM	20674	HCA	THR	B	619	-10.607	89.885	127.927	0.00	0.00	H
ATOM	20675	HCB	THR	B	619	-12.587	88.847	128.943	0.00	0.00	H
ATOM	20676	HCG2	THR	B	619	-12.167	86.407	128.186	0.00	0.00	H
ATOM	20677	HCG2	THR	B	619	-10.919	86.342	129.451	0.00	0.00	H
ATOM	20678	HCG2	THR	B	619	-12.605	86.630	129.888	0.00	0.00	H
ATOM	20679	HOG1	THR	B	619	-11.515	88.422	130.941	0.00	0.00	H
ATOM	20680	N	VAL	B	620	-9.073	87.114	127.047	0.00	0.00	N
ATOM	20681	CA	VAL	B	620	-7.776	86.484	127.091	0.00	0.00	C
ATOM	20682	C	VAL	B	620	-6.912	87.062	126.024	0.00	0.00	C
ATOM	20683	O	VAL	B	620	-7.374	87.620	125.003	0.00	0.00	O
ATOM	20684	CB	VAL	B	620	-7.867	84.919	127.114	0.00	0.00	C
ATOM	20685	CG1	VAL	B	620	-6.487	84.213	127.276	0.00	0.00	C
ATOM	20686	CG2	VAL	B	620	-8.781	84.434	128.276	0.00	0.00	C
ATOM	20687	HN	VAL	B	620	-9.709	86.771	126.411	0.00	0.00	H
ATOM	20688	HCA	VAL	B	620	-7.292	86.743	128.040	0.00	0.00	H
ATOM	20689	HCB	VAL	B	620	-8.305	84.584	126.168	0.00	0.00	H
ATOM	20690	HCG1	VAL	B	620	-6.006	84.506	128.212	0.00	0.00	H
ATOM	20691	HCG1	VAL	B	620	-6.608	83.127	127.276	0.00	0.00	H
ATOM	20692	HCG1	VAL	B	620	-5.821	84.457	126.454	0.00	0.00	H
ATOM	20693	HCG2	VAL	B	620	-9.806	84.760	128.109	0.00	0.00	H
ATOM	20694	HCG2	VAL	B	620	-8.784	83.347	128.344	0.00	0.00	H
ATOM	20695	HCG2	VAL	B	620	-8.439	84.835	129.233	0.00	0.00	H
ATOM	20696	N	LYS	B	621	-5.588	87.052	126.247	0.00	0.00	N
ATOM	20697	CA	LYS	B	621	-4.534	87.610	125.460	0.00	0.00	C
ATOM	20698	C	LYS	B	621	-3.470	86.592	125.254	0.00	0.00	C
ATOM	20699	O	LYS	B	621	-2.822	86.529	124.185	0.00	0.00	O
ATOM	20700	CB	LYS	B	621	-4.041	88.922	126.156	0.00	0.00	C
ATOM	20701	CG	LYS	B	621	-3.292	88.843	127.526	0.00	0.00	C
ATOM	20702	CD	LYS	B	621	-4.044	88.182	128.718	0.00	0.00	C
ATOM	20703	CE	LYS	B	621	-3.245	88.230	130.045	0.00	0.00	C
ATOM	20704	NZ	LYS	B	621	-3.747	87.239	131.009	0.00	0.00	N
ATOM	20705	HN	LYS	B	621	-5.333	86.614	127.064	0.00	0.00	H
ATOM	20706	HNZ	LYS	B	621	-4.495	87.607	131.577	0.00	0.00	H
ATOM	20707	HNZ	LYS	B	621	-4.072	86.403	130.523	0.00	0.00	H
ATOM	20708	HNZ	LYS	B	621	-2.991	86.980	131.626	0.00	0.00	H
ATOM	20709	HCA	LYS	B	621	-4.914	87.887	124.471	0.00	0.00	H
ATOM	20710	HCB	LYS	B	621	-3.371	89.428	125.454	0.00	0.00	H
ATOM	20711	HCB	LYS	B	621	-4.905	89.581	126.285	0.00	0.00	H
ATOM	20712	HCD	LYS	B	621	-5.014	88.666	128.859	0.00	0.00	H
ATOM	20713	HCD	LYS	B	621	-4.212	87.134	128.491	0.00	0.00	H
ATOM	20714	HCE	LYS	B	621	-2.196	87.993	129.853	0.00	0.00	H
ATOM	20715	HCE	LYS	B	621	-3.294	89.229	130.486	0.00	0.00	H
ATOM	20716	HCG	LYS	B	621	-2.348	88.321	127.379	0.00	0.00	H
ATOM	20717	HCG	LYS	B	621	-3.039	89.868	127.816	0.00	0.00	H
ATOM	20718	N	ARG	B	622	-3.174	85.740	126.255	0.00	0.00	N

ATOM	20719	CA	ARG	B	622	-2.099	84.807	126.317	0.00	0.00	C
ATOM	20720	C	ARG	B	622	-2.676	83.454	126.542	0.00	0.00	C
ATOM	20721	O	ARG	B	622	-3.216	83.195	127.646	0.00	0.00	O
ATOM	20722	CB	ARG	B	622	-1.160	85.320	127.455	0.00	0.00	C
ATOM	20723	CG	ARG	B	622	0.119	86.036	126.952	0.00	0.00	C
ATOM	20724	CD	ARG	B	622	0.045	87.282	126.019	0.00	0.00	C
ATOM	20725	NE	ARG	B	622	0.830	87.247	124.818	0.00	0.00	N
ATOM	20726	CZ	ARG	B	622	2.099	86.820	124.696	0.00	0.00	C
ATOM	20727	NH1	ARG	B	622	2.849	86.178	125.583	0.00	0.00	N
ATOM	20728	NH2	ARG	B	622	2.819	86.960	123.596	0.00	0.00	N
ATOM	20729	HN	ARG	B	622	-3.735	85.781	127.037	0.00	0.00	H
ATOM	20730	HNE	ARG	B	622	0.387	87.616	124.041	0.00	0.00	H
ATOM	20731	HNH1	ARG	B	622	2.569	85.897	126.454	0.00	0.00	H
ATOM	20732	HNH1	ARG	B	622	3.719	85.949	125.288	0.00	0.00	H
ATOM	20733	HNH2	ARG	B	622	2.518	87.435	122.828	0.00	0.00	H
ATOM	20734	HNH2	ARG	B	622	3.693	86.581	123.619	0.00	0.00	H
ATOM	20735	HCA	ARG	B	622	-1.539	84.778	125.377	0.00	0.00	H
ATOM	20736	HCB	ARG	B	622	-1.684	85.976	128.155	0.00	0.00	H
ATOM	20737	HCB	ARG	B	622	-0.824	84.464	128.047	0.00	0.00	H
ATOM	20738	HCD	ARG	B	622	-0.977	87.445	125.705	0.00	0.00	H
ATOM	20739	HCD	ARG	B	622	0.333	88.175	126.581	0.00	0.00	H
ATOM	20740	HCG	ARG	B	622	0.667	86.352	127.842	0.00	0.00	H
ATOM	20741	HCG	ARG	B	622	0.677	85.254	126.452	0.00	0.00	H
ATOM	20742	N	GLY	B	623	-2.646	82.530	125.553	0.00	0.00	N
ATOM	20743	CA	GLY	B	623	-3.249	81.225	125.594	0.00	0.00	C
ATOM	20744	C	GLY	B	623	-2.254	80.152	125.786	0.00	0.00	C
ATOM	20745	O	GLY	B	623	-1.318	80.048	124.966	0.00	0.00	O
ATOM	20746	HN	GLY	B	623	-2.197	82.787	124.743	0.00	0.00	H
ATOM	20747	HCA	GLY	B	623	-4.016	81.163	126.371	0.00	0.00	H
ATOM	20748	HCA	GLY	B	623	-3.749	81.058	124.639	0.00	0.00	H
ATOM	20749	N	LEU	B	624	-2.341	79.281	126.813	0.00	0.00	N
ATOM	20750	CA	LEU	B	624	-1.398	78.235	127.118	0.00	0.00	C
ATOM	20751	C	LEU	B	624	-2.040	76.904	126.932	0.00	0.00	C
ATOM	20752	O	LEU	B	624	-3.075	76.621	127.585	0.00	0.00	O
ATOM	20753	CB	LEU	B	624	-0.860	78.505	128.555	0.00	0.00	C
ATOM	20754	CG	LEU	B	624	0.086	77.418	129.155	0.00	0.00	C
ATOM	20755	CD1	LEU	B	624	1.408	77.290	128.356	0.00	0.00	C
ATOM	20756	CD2	LEU	B	624	0.392	77.716	130.647	0.00	0.00	C
ATOM	20757	HN	LEU	B	624	-3.107	79.372	127.400	0.00	0.00	H
ATOM	20758	HCA	LEU	B	624	-0.535	78.287	126.448	0.00	0.00	H
ATOM	20759	HCB	LEU	B	624	-0.323	79.459	128.542	0.00	0.00	H
ATOM	20760	HCB	LEU	B	624	-1.715	78.635	129.219	0.00	0.00	H
ATOM	20761	HCD1	LEU	B	624	1.892	78.262	128.255	0.00	0.00	H
ATOM	20762	HCD1	LEU	B	624	2.100	76.616	128.860	0.00	0.00	H
ATOM	20763	HCD1	LEU	B	624	1.217	76.892	127.359	0.00	0.00	H
ATOM	20764	HCD2	LEU	B	624	-0.529	77.841	131.218	0.00	0.00	H
ATOM	20765	HCD2	LEU	B	624	0.942	76.884	131.089	0.00	0.00	H
ATOM	20766	HCD2	LEU	B	624	0.994	78.622	130.746	0.00	0.00	H
ATOM	20767	HCG	LEU	B	624	-0.423	76.449	129.121	0.00	0.00	H
ATOM	20768	N	VAL	B	625	-1.528	76.024	126.036	0.00	0.00	N
ATOM	20769	CA	VAL	B	625	-2.013	74.695	125.754	0.00	0.00	C
ATOM	20770	C	VAL	B	625	-0.914	73.706	125.966	0.00	0.00	C
ATOM	20771	O	VAL	B	625	0.215	73.904	125.453	0.00	0.00	O
ATOM	20772	CB	VAL	B	625	-2.581	74.680	124.294	0.00	0.00	C
ATOM	20773	CG1	VAL	B	625	-2.956	73.254	123.798	0.00	0.00	C
ATOM	20774	CG2	VAL	B	625	-3.816	75.614	124.131	0.00	0.00	C
ATOM	20775	HN	VAL	B	625	-0.790	76.323	125.497	0.00	0.00	H
ATOM	20776	HCA	VAL	B	625	-2.835	74.431	126.427	0.00	0.00	H
ATOM	20777	HCB	VAL	B	625	-1.800	75.065	123.636	0.00	0.00	H
ATOM	20778	HCG1	VAL	B	625	-2.073	72.614	123.750	0.00	0.00	H
ATOM	20779	HCG1	VAL	B	625	-3.683	72.796	124.471	0.00	0.00	H
ATOM	20780	HCG1	VAL	B	625	-3.384	73.299	122.795	0.00	0.00	H
ATOM	20781	HCG2	VAL	B	625	-4.641	75.279	124.763	0.00	0.00	H
ATOM	20782	HCG2	VAL	B	625	-3.566	76.641	124.402	0.00	0.00	H
ATOM	20783	HCG2	VAL	B	625	-4.156	75.623	123.093	0.00	0.00	H
ATOM	20784	N	LEU	B	626	-1.138	72.569	126.672	0.00	0.00	N
ATOM	20785	CA	LEU	B	626	-0.155	71.554	126.968	0.00	0.00	C
ATOM	20786	C	LEU	B	626	-0.484	70.262	126.302	0.00	0.00	C
ATOM	20787	O	LEU	B	626	-1.662	69.836	126.276	0.00	0.00	O
ATOM	20788	CB	LEU	B	626	0.005	71.333	128.501	0.00	0.00	C
ATOM	20789	CG	LEU	B	626	0.235	72.598	129.387	0.00	0.00	C
ATOM	20790	CD1	LEU	B	626	0.426	72.161	130.857	0.00	0.00	C
ATOM	20791	CD2	LEU	B	626	1.447	73.464	128.972	0.00	0.00	C
ATOM	20792	HN	LEU	B	626	-2.037	72.427	126.975	0.00	0.00	H
ATOM	20793	HCA	LEU	B	626	0.829	71.860	126.604	0.00	0.00	H
ATOM	20794	HCB	LEU	B	626	-0.891	70.833	128.874	0.00	0.00	H
ATOM	20795	HCB	LEU	B	626	0.843	70.645	128.654	0.00	0.00	H
ATOM	20796	HCD1	LEU	B	626	-0.463	71.629	131.191	0.00	0.00	H
ATOM	20797	HCD1	LEU	B	626	1.289	71.500	130.963	0.00	0.00	H
ATOM	20798	HCD1	LEU	B	626	0.579	73.029	131.501	0.00	0.00	H

ATOM	20799	HCD2	LEU	B	626	2.363	72.873	128.995	0.00	0.00	H
ATOM	20800	HCD2	LEU	B	626	1.295	73.870	127.974	0.00	0.00	H
ATOM	20801	HCD2	LEU	B	626	1.564	74.307	129.655	0.00	0.00	H
ATOM	20802	HCG	LEU	B	626	-0.661	73.226	129.334	0.00	0.00	H
ATOM	20803	N	ARG	B	627	0.492	69.521	125.735	0.00	0.00	N
ATOM	20804	CA	ARG	B	627	0.359	68.203	125.184	0.00	0.00	C
ATOM	20805	C	ARG	B	627	1.332	67.251	125.795	0.00	0.00	C
ATOM	20806	O	ARG	B	627	2.552	67.512	125.747	0.00	0.00	O
ATOM	20807	CB	ARG	B	627	0.559	68.355	123.647	0.00	0.00	C
ATOM	20808	CG	ARG	B	627	0.235	67.063	122.851	0.00	0.00	C
ATOM	20809	CD	ARG	B	627	0.727	67.126	121.388	0.00	0.00	C
ATOM	20810	NE	ARG	B	627	0.526	65.879	120.722	0.00	0.00	N
ATOM	20811	CZ	ARG	B	627	1.246	64.772	120.898	0.00	0.00	C
ATOM	20812	NH1	ARG	B	627	2.348	64.708	121.628	0.00	0.00	N
ATOM	20813	NH2	ARG	B	627	0.768	63.714	120.270	0.00	0.00	N
ATOM	20814	HN	ARG	B	627	1.342	69.946	125.642	0.00	0.00	H
ATOM	20815	HNE	ARG	B	627	-0.201	65.763	120.109	0.00	0.00	H
ATOM	20816	HNH1	ARG	B	627	2.691	65.516	122.029	0.00	0.00	H
ATOM	20817	HNH1	ARG	B	627	2.812	63.890	121.769	0.00	0.00	H
ATOM	20818	HNH2	ARG	B	627	-0.001	63.881	119.723	0.00	0.00	H
ATOM	20819	HNH2	ARG	B	627	1.184	62.846	120.339	0.00	0.00	H
ATOM	20820	HCA	ARG	B	627	-0.644	67.809	125.356	0.00	0.00	H
ATOM	20821	HCB	ARG	B	627	-0.093	69.152	123.275	0.00	0.00	H
ATOM	20822	HCB	ARG	B	627	1.591	68.662	123.454	0.00	0.00	H
ATOM	20823	HCD	ARG	B	627	0.185	67.908	120.858	0.00	0.00	H
ATOM	20824	HCD	ARG	B	627	1.782	67.395	121.373	0.00	0.00	H
ATOM	20825	HCG	ARG	B	627	0.707	66.210	123.340	0.00	0.00	H
ATOM	20826	HCG	ARG	B	627	-0.846	66.902	122.858	0.00	0.00	H
ATOM	20827	N	ASN	B	628	0.935	66.072	126.331	0.00	0.00	N
ATOM	20828	CA	ASN	B	628	1.807	64.968	126.675	0.00	0.00	C
ATOM	20829	C	ASN	B	628	2.324	64.337	125.432	0.00	0.00	C
ATOM	20830	O	ASN	B	628	1.512	63.916	124.572	0.00	0.00	O
ATOM	20831	CB	ASN	B	628	1.026	63.991	127.613	0.00	0.00	C
ATOM	20832	CG	ASN	B	628	1.348	62.544	127.708	0.00	0.00	C
ATOM	20833	ND2	ASN	B	628	0.640	61.847	128.612	0.00	0.00	N
ATOM	20834	OD1	ASN	B	628	2.171	61.944	126.978	0.00	0.00	O
ATOM	20835	HN	ASN	B	628	-0.009	65.938	126.416	0.00	0.00	H
ATOM	20836	HND2	ASN	B	628	0.026	62.327	129.181	0.00	0.00	H
ATOM	20837	HND2	ASN	B	628	0.707	60.901	128.747	0.00	0.00	H
ATOM	20838	HCA	ASN	B	628	2.655	65.353	127.254	0.00	0.00	H
ATOM	20839	HCB	ASN	B	628	1.074	64.405	128.624	0.00	0.00	H
ATOM	20840	HCB	ASN	B	628	-0.011	64.018	127.311	0.00	0.00	H
ATOM	20841	N	GLU	B	629	3.659	64.223	125.245	0.00	0.00	N
ATOM	20842	CA	GLU	B	629	4.359	63.534	124.197	0.00	0.00	C
ATOM	20843	C	GLU	B	629	3.679	62.404	123.495	0.00	0.00	C
ATOM	20844	O	GLU	B	629	3.818	62.335	122.247	0.00	0.00	O
ATOM	20845	CB	GLU	B	629	5.765	63.107	124.706	0.00	0.00	C
ATOM	20846	CG	GLU	B	629	5.746	62.181	125.956	0.00	0.00	C
ATOM	20847	CD	GLU	B	629	7.051	61.555	126.215	0.00	0.00	C
ATOM	20848	OE1	GLU	B	629	7.544	60.757	125.390	0.00	0.00	O
ATOM	20849	OE2	GLU	B	629	7.647	61.733	127.299	0.00	0.00	O
ATOM	20850	HN	GLU	B	629	4.215	64.701	125.863	0.00	0.00	H
ATOM	20851	HCA	GLU	B	629	4.541	64.305	123.448	0.00	0.00	H
ATOM	20852	HCB	GLU	B	629	6.296	62.614	123.885	0.00	0.00	H
ATOM	20853	HCB	GLU	B	629	6.341	64.005	124.954	0.00	0.00	H
ATOM	20854	HCG	GLU	B	629	5.432	62.760	126.826	0.00	0.00	H
ATOM	20855	HCG	GLU	B	629	5.023	61.379	125.833	0.00	0.00	H
ATOM	20856	N	LYS	B	630	2.912	61.480	124.132	0.00	0.00	N
ATOM	20857	CA	LYS	B	630	2.232	60.393	123.464	0.00	0.00	C
ATOM	20858	C	LYS	B	630	0.798	60.330	123.864	0.00	0.00	C
ATOM	20859	O	LYS	B	630	0.204	59.229	123.939	0.00	0.00	O
ATOM	20860	CB	LYS	B	630	2.992	59.037	123.614	0.00	0.00	C
ATOM	20861	CG	LYS	B	630	4.542	59.096	123.471	0.00	0.00	C
ATOM	20862	CD	LYS	B	630	5.203	57.693	123.332	0.00	0.00	C
ATOM	20863	CE	LYS	B	630	6.656	57.582	123.865	0.00	0.00	C
ATOM	20864	NZ	LYS	B	630	7.536	58.664	123.414	0.00	0.00	N
ATOM	20865	HN	LYS	B	630	2.767	61.592	125.080	0.00	0.00	H
ATOM	20866	HNZ	LYS	B	630	7.248	59.001	122.497	0.00	0.00	H
ATOM	20867	HNZ	LYS	B	630	7.505	59.419	124.081	0.00	0.00	H
ATOM	20868	HNZ	LYS	B	630	8.498	58.328	123.367	0.00	0.00	H
ATOM	20869	HCA	LYS	B	630	2.183	60.583	122.387	0.00	0.00	H
ATOM	20870	HCB	LYS	B	630	2.747	58.621	124.590	0.00	0.00	H
ATOM	20871	HCB	LYS	B	630	2.601	58.342	122.864	0.00	0.00	H
ATOM	20872	HCD	LYS	B	630	4.611	56.955	123.878	0.00	0.00	H
ATOM	20873	HCD	LYS	B	630	5.186	57.401	122.279	0.00	0.00	H
ATOM	20874	HCE	LYS	B	630	6.652	57.577	124.957	0.00	0.00	H
ATOM	20875	HCE	LYS	B	630	7.080	56.631	123.532	0.00	0.00	H
ATOM	20876	HCG	LYS	B	630	4.808	59.699	122.599	0.00	0.00	H
ATOM	20877	HCG	LYS	B	630	4.946	59.594	124.352	0.00	0.00	H
ATOM	20878	N	CYS	B	631	0.089	61.465	124.075	0.00	0.00	N

ATOM	20879	CA	CYS	B	631	-1.334	61.539	124.272	0.00	0.00	C
ATOM	20880	C	CYS	B	631	-2.130	60.850	123.219	0.00	0.00	C
ATOM	20881	O	CYS	B	631	-3.148	60.190	123.529	0.00	0.00	O
ATOM	20882	CB	CYS	B	631	-1.770	63.024	124.415	0.00	0.00	C
ATOM	20883	SG	CYS	B	631	-1.632	64.027	122.921	0.00	0.00	S
ATOM	20884	HN	CYS	B	631	0.583	62.282	124.153	0.00	0.00	H
ATOM	20885	HCA	CYS	B	631	-1.542	61.050	125.226	0.00	0.00	H
ATOM	20886	HCB	CYS	B	631	-2.810	63.067	124.741	0.00	0.00	H
ATOM	20887	HCB	CYS	B	631	-1.159	63.504	125.178	0.00	0.00	H
ATOM	20888	HSG	CYS	B	631	-2.486	63.224	122.235	0.00	0.00	H
ATOM	20889	N	ASN	B	632	-1.763	60.978	121.924	0.00	0.00	N
ATOM	20890	CA	ASN	B	632	-2.461	60.460	120.787	0.00	0.00	C
ATOM	20891	C	ASN	B	632	-1.480	60.237	119.688	0.00	0.00	C
ATOM	20892	O	ASN	B	632	-0.703	61.163	119.351	0.00	0.00	O
ATOM	20893	CB	ASN	B	632	-3.580	61.473	120.414	0.00	0.00	C
ATOM	20894	CG	ASN	B	632	-4.442	61.029	119.307	0.00	0.00	C
ATOM	20895	ND2	ASN	B	632	-5.760	60.861	119.445	0.00	0.00	N
ATOM	20896	OD1	ASN	B	632	-3.955	60.802	118.179	0.00	0.00	O
ATOM	20897	HN	ASN	B	632	-0.973	61.513	121.751	0.00	0.00	H
ATOM	20898	HND2	ASN	B	632	-6.195	61.039	120.292	0.00	0.00	H
ATOM	20899	HND2	ASN	B	632	-6.282	60.571	118.684	0.00	0.00	H
ATOM	20900	HCA	ASN	B	632	-2.927	59.502	121.045	0.00	0.00	H
ATOM	20901	HCB	ASN	B	632	-4.206	61.654	121.292	0.00	0.00	H
ATOM	20902	HCB	ASN	B	632	-3.120	62.422	120.142	0.00	0.00	H
ATOM	20903	N	GLU	B	633	-1.442	59.048	119.044	0.00	0.00	N
ATOM	20904	CA	GLU	B	633	-0.510	58.674	118.015	0.00	0.00	C
ATOM	20905	C	GLU	B	633	-0.660	59.425	116.729	0.00	0.00	C
ATOM	20906	O	GLU	B	633	0.250	59.308	115.875	0.00	0.00	O
ATOM	20907	CB	GLU	B	633	-0.632	57.139	117.754	0.00	0.00	C
ATOM	20908	CG	GLU	B	633	-0.518	56.201	118.996	0.00	0.00	C
ATOM	20909	CD	GLU	B	633	0.756	56.263	119.731	0.00	0.00	C
ATOM	20910	OE1	GLU	B	633	1.846	56.067	119.154	0.00	0.00	O
ATOM	20911	OE2	GLU	B	633	0.784	56.446	120.967	0.00	0.00	O
ATOM	20912	HN	GLU	B	633	-2.095	58.386	119.313	0.00	0.00	H
ATOM	20913	HCA	GLU	B	633	0.499	58.872	118.394	0.00	0.00	H
ATOM	20914	HCB	GLU	B	633	-1.599	56.943	117.280	0.00	0.00	H
ATOM	20915	HCB	GLU	B	633	0.141	56.840	117.038	0.00	0.00	H
ATOM	20916	HCG	GLU	B	633	-1.341	56.402	119.685	0.00	0.00	H
ATOM	20917	HCG	GLU	B	633	-0.634	55.170	118.655	0.00	0.00	H
ATOM	20918	N	ASN	B	634	-1.743	60.194	116.448	0.00	0.00	N
ATOM	20919	CA	ASN	B	634	-2.026	60.889	115.218	0.00	0.00	C
ATOM	20920	C	ASN	B	634	-2.089	62.358	115.451	0.00	0.00	C
ATOM	20921	O	ASN	B	634	-1.543	63.130	114.624	0.00	0.00	O
ATOM	20922	CB	ASN	B	634	-3.378	60.372	114.648	0.00	0.00	C
ATOM	20923	CG	ASN	B	634	-3.344	58.936	114.318	0.00	0.00	C
ATOM	20924	ND2	ASN	B	634	-4.113	58.048	114.954	0.00	0.00	N
ATOM	20925	OD1	ASN	B	634	-2.589	58.499	113.423	0.00	0.00	O
ATOM	20926	HN	ASN	B	634	-2.417	60.298	117.118	0.00	0.00	H
ATOM	20927	HND2	ASN	B	634	-4.712	58.337	115.657	0.00	0.00	H
ATOM	20928	HND2	ASN	B	634	-4.065	57.114	114.705	0.00	0.00	H
ATOM	20929	HCA	ASN	B	634	-1.249	60.702	114.467	0.00	0.00	H
ATOM	20930	HCB	ASN	B	634	-4.179	60.564	115.368	0.00	0.00	H
ATOM	20931	HCB	ASN	B	634	-3.623	60.915	113.732	0.00	0.00	H
ATOM	20932	N	TYR	B	635	-2.730	62.852	116.542	0.00	0.00	N
ATOM	20933	CA	TYR	B	635	-2.801	64.241	116.919	0.00	0.00	C
ATOM	20934	C	TYR	B	635	-1.511	64.678	117.543	0.00	0.00	C
ATOM	20935	O	TYR	B	635	-1.401	64.973	118.758	0.00	0.00	O
ATOM	20936	CB	TYR	B	635	-4.052	64.525	117.804	0.00	0.00	C
ATOM	20937	CG	TYR	B	635	-5.397	64.070	117.342	0.00	0.00	C
ATOM	20938	CD1	TYR	B	635	-5.723	63.762	115.998	0.00	0.00	C
ATOM	20939	CD2	TYR	B	635	-6.421	63.961	118.311	0.00	0.00	C
ATOM	20940	CE1	TYR	B	635	-7.020	63.330	115.648	0.00	0.00	C
ATOM	20941	CE2	TYR	B	635	-7.712	63.533	117.964	0.00	0.00	C
ATOM	20942	CZ	TYR	B	635	-8.018	63.206	116.633	0.00	0.00	C
ATOM	20943	OH	TYR	B	635	-9.265	62.775	116.322	0.00	0.00	O
ATOM	20944	HN	TYR	B	635	-3.144	62.206	117.116	0.00	0.00	H
ATOM	20945	HCA	TYR	B	635	-2.933	64.845	116.018	0.00	0.00	H
ATOM	20946	HCB	TYR	B	635	-3.863	64.083	118.781	0.00	0.00	H
ATOM	20947	HCB	TYR	B	635	-4.121	65.605	117.958	0.00	0.00	H
ATOM	20948	HCD1	TYR	B	635	-5.024	63.852	115.259	0.00	0.00	H
ATOM	20949	HCD2	TYR	B	635	-6.232	64.183	119.289	0.00	0.00	H
ATOM	20950	HCE1	TYR	B	635	-7.235	63.106	114.674	0.00	0.00	H
ATOM	20951	HCE2	TYR	B	635	-8.422	63.458	118.688	0.00	0.00	H
ATOM	20952	HOH	TYR	B	635	-9.477	62.521	115.397	0.00	0.00	H
ATOM	20953	N	THR	B	636	-0.433	64.724	116.731	0.00	0.00	N
ATOM	20954	CA	THR	B	636	0.883	65.232	117.021	0.00	0.00	C
ATOM	20955	C	THR	B	636	0.905	66.656	117.448	0.00	0.00	C
ATOM	20956	O	THR	B	636	-0.072	67.414	117.243	0.00	0.00	O
ATOM	20957	CB	THR	B	636	1.830	65.087	115.788	0.00	0.00	C
ATOM	20958	CG2	THR	B	636	1.996	63.634	115.288	0.00	0.00	C

ATOM	20959	OG1	THR	B	636	1.368	65.903	114.710	0.00	0.00	O
ATOM	20960	HN	THR	B	636	-0.613	64.332	115.877	0.00	0.00	H
ATOM	20961	HCA	THR	B	636	1.297	64.631	117.832	0.00	0.00	H
ATOM	20962	HC	THR	B	636	2.831	65.440	116.062	0.00	0.00	H
ATOM	20963	HCG2	THR	B	636	1.060	63.252	114.885	0.00	0.00	H
ATOM	20964	HCG2	THR	B	636	2.749	63.596	114.499	0.00	0.00	H
ATOM	20965	HCG2	THR	B	636	2.320	62.986	116.104	0.00	0.00	H
ATOM	20966	HOG1	THR	B	636	2.034	65.765	114.000	0.00	0.00	H
ATOM	20967	N	THR	B	637	2.034	67.157	117.998	0.00	0.00	N
ATOM	20968	CA	THR	B	637	2.279	68.543	118.293	0.00	0.00	C
ATOM	20969	C	THR	B	637	2.130	69.362	117.068	0.00	0.00	C
ATOM	20970	O	THR	B	637	1.394	70.372	117.103	0.00	0.00	O
ATOM	20971	CB	THR	B	637	3.687	68.710	118.928	0.00	0.00	C
ATOM	20972	CG2	THR	B	637	3.915	70.115	119.532	0.00	0.00	C
ATOM	20973	OG1	THR	B	637	3.782	67.755	119.977	0.00	0.00	O
ATOM	20974	HN	THR	B	637	2.752	66.533	118.190	0.00	0.00	H
ATOM	20975	HCA	THR	B	637	1.540	68.867	119.030	0.00	0.00	H
ATOM	20976	HC	THR	B	637	4.464	68.492	118.186	0.00	0.00	H
ATOM	20977	HCG2	THR	B	637	3.742	70.891	118.787	0.00	0.00	H
ATOM	20978	HCG2	THR	B	637	3.238	70.281	120.372	0.00	0.00	H
ATOM	20979	HCG2	THR	B	637	4.939	70.208	119.889	0.00	0.00	H
ATOM	20980	HOG1	THR	B	637	4.720	67.623	120.184	0.00	0.00	H
ATOM	20981	N	ASP	B	638	2.713	68.969	115.913	0.00	0.00	N
ATOM	20982	CA	ASP	B	638	2.543	69.521	114.607	0.00	0.00	C
ATOM	20983	C	ASP	B	638	1.102	69.643	114.236	0.00	0.00	C
ATOM	20984	O	ASP	B	638	0.664	70.771	113.918	0.00	0.00	O
ATOM	20985	CB	ASP	B	638	3.329	68.653	113.570	0.00	0.00	C
ATOM	20986	CG	ASP	B	638	4.661	68.186	114.010	0.00	0.00	C
ATOM	20987	OD1	ASP	B	638	4.774	67.312	114.902	0.00	0.00	O
ATOM	20988	OD2	ASP	B	638	5.705	68.634	113.492	0.00	0.00	O
ATOM	20989	HN	ASP	B	638	3.340	68.243	115.924	0.00	0.00	H
ATOM	20990	HCA	ASP	B	638	2.999	70.518	114.618	0.00	0.00	H
ATOM	20991	HC	ASP	B	638	2.757	67.763	113.307	0.00	0.00	H
ATOM	20992	HC	ASP	B	638	3.445	69.238	112.655	0.00	0.00	H
ATOM	20993	N	PHE	B	639	0.262	68.577	114.275	0.00	0.00	N
ATOM	20994	CA	PHE	B	639	-1.158	68.618	114.021	0.00	0.00	C
ATOM	20995	C	PHE	B	639	-1.879	69.611	114.875	0.00	0.00	C
ATOM	20996	O	PHE	B	639	-2.583	70.497	114.329	0.00	0.00	O
ATOM	20997	CB	PHE	B	639	-1.727	67.180	114.202	0.00	0.00	C
ATOM	20998	CG	PHE	B	639	-3.158	67.042	113.820	0.00	0.00	C
ATOM	20999	CD1	PHE	B	639	-3.517	66.754	112.483	0.00	0.00	C
ATOM	21000	CD2	PHE	B	639	-4.185	67.188	114.784	0.00	0.00	C
ATOM	21001	CE1	PHE	B	639	-4.868	66.599	112.120	0.00	0.00	C
ATOM	21002	CE2	PHE	B	639	-5.535	67.031	114.421	0.00	0.00	C
ATOM	21003	CZ	PHE	B	639	-5.877	66.735	113.090	0.00	0.00	C
ATOM	21004	HN	PHE	B	639	0.646	67.718	114.473	0.00	0.00	H
ATOM	21005	HCA	PHE	B	639	-1.292	68.897	112.970	0.00	0.00	H
ATOM	21006	HC	PHE	B	639	-1.135	66.480	113.604	0.00	0.00	H
ATOM	21007	HC	PHE	B	639	-1.598	66.869	115.239	0.00	0.00	H
ATOM	21008	HCD1	PHE	B	639	-2.795	66.651	111.766	0.00	0.00	H
ATOM	21009	HCD2	PHE	B	639	-3.956	67.408	115.756	0.00	0.00	H
ATOM	21010	HCE1	PHE	B	639	-5.116	66.386	111.151	0.00	0.00	H
ATOM	21011	HCE2	PHE	B	639	-6.268	67.128	115.125	0.00	0.00	H
ATOM	21012	HCZ	PHE	B	639	-6.858	66.619	112.826	0.00	0.00	H
ATOM	21013	N	ILE	B	640	-1.749	69.566	116.225	0.00	0.00	N
ATOM	21014	CA	ILE	B	640	-2.351	70.477	117.174	0.00	0.00	C
ATOM	21015	C	ILE	B	640	-2.004	71.892	116.823	0.00	0.00	C
ATOM	21016	O	ILE	B	640	-2.918	72.720	116.579	0.00	0.00	O
ATOM	21017	CB	ILE	B	640	-1.935	70.049	118.633	0.00	0.00	C
ATOM	21018	CG1	ILE	B	640	-2.454	68.627	119.052	0.00	0.00	C
ATOM	21019	CG2	ILE	B	640	-2.297	71.093	119.728	0.00	0.00	C
ATOM	21020	CD1	ILE	B	640	-3.946	68.504	119.426	0.00	0.00	C
ATOM	21021	HN	ILE	B	640	-1.193	68.865	116.572	0.00	0.00	H
ATOM	21022	HCA	ILE	B	640	-3.437	70.373	117.094	0.00	0.00	H
ATOM	21023	HC	ILE	B	640	-0.842	69.987	118.638	0.00	0.00	H
ATOM	21024	HCD1	ILE	B	640	-4.177	69.087	120.318	0.00	0.00	H
ATOM	21025	HCD1	ILE	B	640	-4.559	68.850	118.600	0.00	0.00	H
ATOM	21026	HCD1	ILE	B	640	-4.193	67.463	119.635	0.00	0.00	H
ATOM	21027	HCG1	ILE	B	640	-2.269	67.914	118.250	0.00	0.00	H
ATOM	21028	HCG1	ILE	B	640	-1.883	68.286	119.916	0.00	0.00	H
ATOM	21029	HCG2	ILE	B	640	-1.775	72.030	119.557	0.00	0.00	H
ATOM	21030	HCG2	ILE	B	640	-3.367	71.290	119.726	0.00	0.00	H
ATOM	21031	HCG2	ILE	B	640	-2.010	70.732	120.719	0.00	0.00	H
ATOM	21032	N	PHE	B	641	-0.707	72.258	116.683	0.00	0.00	N
ATOM	21033	CA	PHE	B	641	-0.198	73.540	116.281	0.00	0.00	C
ATOM	21034	C	PHE	B	641	-0.798	74.022	115.010	0.00	0.00	C
ATOM	21035	O	PHE	B	641	-1.440	75.100	115.015	0.00	0.00	O
ATOM	21036	CB	PHE	B	641	1.357	73.436	116.241	0.00	0.00	C
ATOM	21037	CG	PHE	B	641	2.072	74.666	115.808	0.00	0.00	C
ATOM	21038	CD1	PHE	B	641	1.956	75.860	116.554	0.00	0.00	C



ATOM	21039	CD2	PHE	B	641	2.901	74.662	114.661	0.00	0.00		C
ATOM	21040	CE1	PHE	B	641	2.634	77.023	116.153	0.00	0.00		C
ATOM	21041	CE2	PHE	B	641	3.587	75.826	114.264	0.00	0.00		C
ATOM	21042	CZ	PHE	B	641	3.451	77.009	115.010	0.00	0.00		C
ATOM	21043	HN	PHE	B	641	-0.048	71.588	116.850	0.00	0.00		H
ATOM	21044	HCA	PHE	B	641	-0.453	74.259	117.055	0.00	0.00		H
ATOM	21045	HCB	PHE	B	641	1.716	73.185	117.243	0.00	0.00		H
ATOM	21046	HCB	PHE	B	641	1.632	72.601	115.593	0.00	0.00		H
ATOM	21047	HCD1	PHE	B	641	1.380	75.892	117.397	0.00	0.00		H
ATOM	21048	HCD2	PHE	B	641	3.018	73.810	114.108	0.00	0.00		H
ATOM	21049	HCE1	PHE	B	641	2.530	77.877	116.695	0.00	0.00		H
ATOM	21050	HCE2	PHE	B	641	4.185	75.811	113.435	0.00	0.00		H
ATOM	21051	HCZ	PHE	B	641	3.946	77.857	114.724	0.00	0.00		H
ATOM	21052	N	ASN	B	642	-0.714	73.279	113.882	0.00	0.00		N
ATOM	21053	CA	ASN	B	642	-1.286	73.617	112.610	0.00	0.00		C
ATOM	21054	C	ASN	B	642	-2.744	73.900	112.711	0.00	0.00		C
ATOM	21055	O	ASN	B	642	-3.172	74.973	112.224	0.00	0.00		O
ATOM	21056	CB	ASN	B	642	-1.006	72.487	111.573	0.00	0.00		C
ATOM	21057	CG	ASN	B	642	0.409	72.267	111.206	0.00	0.00		C
ATOM	21058	ND2	ASN	B	642	1.431	72.911	111.779	0.00	0.00		N
ATOM	21059	OD1	ASN	B	642	0.700	71.441	110.316	0.00	0.00		O
ATOM	21060	HN	ASN	B	642	-0.245	72.448	113.939	0.00	0.00		H
ATOM	21061	HND2	ASN	B	642	1.251	73.530	112.498	0.00	0.00		H
ATOM	21062	HND2	ASN	B	642	2.336	72.738	111.485	0.00	0.00		H
ATOM	21063	HCA	ASN	B	642	-0.788	74.527	112.254	0.00	0.00		H
ATOM	21064	HCB	ASN	B	642	-1.406	71.542	111.946	0.00	0.00		H
ATOM	21065	HCB	ASN	B	642	-1.534	72.729	110.646	0.00	0.00		H
ATOM	21066	N	LEU	B	643	-3.592	73.051	113.344	0.00	0.00		N
ATOM	21067	CA	LEU	B	643	-4.996	73.302	113.533	0.00	0.00		C
ATOM	21068	C	LEU	B	643	-5.257	74.564	114.287	0.00	0.00		C
ATOM	21069	O	LEU	B	643	-5.975	75.439	113.742	0.00	0.00		O
ATOM	21070	CB	LEU	B	643	-5.663	72.072	114.211	0.00	0.00		C
ATOM	21071	CG	LEU	B	643	-7.218	72.160	114.369	0.00	0.00		C
ATOM	21072	CD1	LEU	B	643	-7.976	72.108	113.015	0.00	0.00		C
ATOM	21073	CD2	LEU	B	643	-7.720	71.028	115.297	0.00	0.00		C
ATOM	21074	HN	LEU	B	643	-3.233	72.229	113.687	0.00	0.00		H
ATOM	21075	HCA	LEU	B	643	-5.426	73.397	112.531	0.00	0.00		H
ATOM	21076	HCB	LEU	B	643	-5.421	71.174	113.634	0.00	0.00		H
ATOM	21077	HCB	LEU	B	643	-5.208	71.947	115.198	0.00	0.00		H
ATOM	21078	HCD1	LEU	B	643	-7.722	72.966	112.395	0.00	0.00		H
ATOM	21079	HCD1	LEU	B	643	-7.729	71.195	112.470	0.00	0.00		H
ATOM	21080	HCD1	LEU	B	643	-9.055	72.132	113.182	0.00	0.00		H
ATOM	21081	HCD2	LEU	B	643	-7.221	71.112	116.262	0.00	0.00		H
ATOM	21082	HCD2	LEU	B	643	-8.797	71.109	115.461	0.00	0.00		H
ATOM	21083	HCD2	LEU	B	643	-7.500	70.047	114.869	0.00	0.00		H
ATOM	21084	HCG	LEU	B	643	-7.474	73.105	114.861	0.00	0.00		H
ATOM	21085	N	TYR	B	644	-4.709	74.794	115.509	0.00	0.00		N
ATOM	21086	CA	TYR	B	644	-4.886	76.011	116.272	0.00	0.00		C
ATOM	21087	C	TYR	B	644	-4.527	77.216	115.456	0.00	0.00		C
ATOM	21088	O	TYR	B	644	-5.374	78.138	115.326	0.00	0.00		O
ATOM	21089	CB	TYR	B	644	-4.083	75.947	117.615	0.00	0.00		C
ATOM	21090	CG	TYR	B	644	-4.835	75.382	118.780	0.00	0.00		C
ATOM	21091	CD1	TYR	B	644	-5.664	76.213	119.571	0.00	0.00		C
ATOM	21092	CD2	TYR	B	644	-4.726	74.019	119.151	0.00	0.00		C
ATOM	21093	CE1	TYR	B	644	-6.359	75.696	120.682	0.00	0.00		C
ATOM	21094	CE2	TYR	B	644	-5.425	73.501	120.262	0.00	0.00		C
ATOM	21095	CZ	TYR	B	644	-6.250	74.340	121.029	0.00	0.00		C
ATOM	21096	OH	TYR	B	644	-6.958	73.874	122.085	0.00	0.00		O
ATOM	21097	HN	TYR	B	644	-4.139	74.108	115.872	0.00	0.00		H
ATOM	21098	HCA	TYR	B	644	-5.951	76.089	116.520	0.00	0.00		H
ATOM	21099	HCB	TYR	B	644	-3.165	75.377	117.452	0.00	0.00		H
ATOM	21100	HCB	TYR	B	644	-3.752	76.951	117.898	0.00	0.00		H
ATOM	21101	HCD1	TYR	B	644	-5.766	77.204	119.344	0.00	0.00		H
ATOM	21102	HCD2	TYR	B	644	-4.136	73.392	118.613	0.00	0.00		H
ATOM	21103	HCE1	TYR	B	644	-6.963	76.302	121.238	0.00	0.00		H
ATOM	21104	HCE2	TYR	B	644	-5.340	72.516	120.512	0.00	0.00		H
ATOM	21105	HOH	TYR	B	644	-6.976	72.943	122.352	0.00	0.00		H
ATOM	21106	N	SER	B	645	-3.339	77.273	114.799	0.00	0.00		N
ATOM	21107	CA	SER	B	645	-2.893	78.333	113.931	0.00	0.00		C
ATOM	21108	C	SER	B	645	-3.833	78.615	112.809	0.00	0.00		C
ATOM	21109	O	SER	B	645	-4.266	79.783	112.665	0.00	0.00		O
ATOM	21110	CB	SER	B	645	-1.491	77.996	113.350	0.00	0.00		C
ATOM	21111	OG	SER	B	645	-0.519	77.765	114.367	0.00	0.00		O
ATOM	21112	HN	SER	B	645	-2.733	76.537	114.910	0.00	0.00		H
ATOM	21113	HCA	SER	B	645	-2.781	79.236	114.539	0.00	0.00		H
ATOM	21114	HCB	SER	B	645	-1.548	77.088	112.745	0.00	0.00		H
ATOM	21115	HCB	SER	B	645	-1.135	78.808	112.709	0.00	0.00		H
ATOM	21116	HOG	SER	B	645	-0.172	78.630	114.631	0.00	0.00		H
ATOM	21117	N	GLU	B	646	-4.217	77.645	111.939	0.00	0.00		N
ATOM	21118	CA	GLU	B	646	-5.116	77.836	110.829	0.00	0.00		C

ATOM	21119	C	GLU	B	646	-6.485	78.239	111.240	0.00	0.00	C
ATOM	21120	O	GLU	B	646	-7.102	79.060	110.520	0.00	0.00	O
ATOM	21121	CB	GLU	B	646	-5.156	76.581	109.894	0.00	0.00	C
ATOM	21122	CG	GLU	B	646	-4.178	76.673	108.686	0.00	0.00	C
ATOM	21123	CD	GLU	B	646	-4.579	77.689	107.693	0.00	0.00	C
ATOM	21124	OE1	GLU	B	646	-5.638	77.567	107.042	0.00	0.00	O
ATOM	21125	OE2	GLU	B	646	-3.886	78.708	107.480	0.00	0.00	O
ATOM	21126	HN	GLU	B	646	-3.864	76.764	112.071	0.00	0.00	H
ATOM	21127	HCA	GLU	B	646	-4.713	78.675	110.254	0.00	0.00	H
ATOM	21128	HCB	GLU	B	646	-4.924	75.683	110.471	0.00	0.00	H
ATOM	21129	HCB	GLU	B	646	-6.164	76.425	109.493	0.00	0.00	H
ATOM	21130	HCG	GLU	B	646	-3.172	76.893	109.052	0.00	0.00	H
ATOM	21131	HCG	GLU	B	646	-4.141	75.708	108.177	0.00	0.00	H
ATOM	21132	N	GLU	B	647	-7.089	77.734	112.341	0.00	0.00	N
ATOM	21133	CA	GLU	B	647	-8.348	78.206	112.843	0.00	0.00	C
ATOM	21134	C	GLU	B	647	-8.254	79.615	113.325	0.00	0.00	C
ATOM	21135	O	GLU	B	647	-8.935	80.487	112.726	0.00	0.00	O
ATOM	21136	CB	GLU	B	647	-8.875	77.237	113.938	0.00	0.00	C
ATOM	21137	CG	GLU	B	647	-9.337	75.854	113.382	0.00	0.00	C
ATOM	21138	CD	GLU	B	647	-10.569	75.909	112.578	0.00	0.00	C
ATOM	21139	OE1	GLU	B	647	-11.653	76.267	113.086	0.00	0.00	O
ATOM	21140	OE2	GLU	B	647	-10.571	75.588	111.371	0.00	0.00	O
ATOM	21141	HN	GLU	B	647	-6.656	77.021	112.816	0.00	0.00	H
ATOM	21142	HCA	GLU	B	647	-9.073	78.182	112.021	0.00	0.00	H
ATOM	21143	HCB	GLU	B	647	-8.078	77.081	114.669	0.00	0.00	H
ATOM	21144	HCB	GLU	B	647	-9.715	77.699	114.467	0.00	0.00	H
ATOM	21145	HCG	GLU	B	647	-8.535	75.418	112.784	0.00	0.00	H
ATOM	21146	HCG	GLU	B	647	-9.529	75.172	114.210	0.00	0.00	H
ATOM	21147	N	GLY	B	648	-7.431	79.992	114.339	0.00	0.00	N
ATOM	21148	CA	GLY	B	648	-7.393	81.326	114.890	0.00	0.00	C
ATOM	21149	C	GLY	B	648	-6.503	82.244	114.150	0.00	0.00	C
ATOM	21150	O	GLY	B	648	-5.681	82.969	114.759	0.00	0.00	O
ATOM	21151	HN	GLY	B	648	-6.802	79.347	114.680	0.00	0.00	H
ATOM	21152	HCA	GLY	B	648	-8.395	81.762	114.907	0.00	0.00	H
ATOM	21153	HCA	GLY	B	648	-7.065	81.263	115.923	0.00	0.00	H
ATOM	21154	N	LYS	B	649	-6.632	82.281	112.807	0.00	0.00	N
ATOM	21155	CA	LYS	B	649	-5.747	82.935	111.882	0.00	0.00	C
ATOM	21156	C	LYS	B	649	-5.712	84.408	112.081	0.00	0.00	C
ATOM	21157	O	LYS	B	649	-4.777	84.895	112.759	0.00	0.00	O
ATOM	21158	CB	LYS	B	649	-6.110	82.505	110.430	0.00	0.00	C
ATOM	21159	CG	LYS	B	649	-5.056	82.851	109.340	0.00	0.00	C
ATOM	21160	CD	LYS	B	649	-3.753	82.006	109.446	0.00	0.00	C
ATOM	21161	CE	LYS	B	649	-2.808	82.141	108.228	0.00	0.00	C
ATOM	21162	NZ	LYS	B	649	-3.378	81.521	107.027	0.00	0.00	N
ATOM	21163	HN	LYS	B	649	-7.360	81.739	112.496	0.00	0.00	H
ATOM	21164	HNZ	LYS	B	649	-4.250	81.984	106.778	0.00	0.00	H
ATOM	21165	HNZ	LYS	B	649	-2.720	81.608	106.254	0.00	0.00	H
ATOM	21166	HNZ	LYS	B	649	-3.557	80.545	107.196	0.00	0.00	H
ATOM	21167	HCA	LYS	B	649	-4.750	82.541	112.100	0.00	0.00	H
ATOM	21168	HCB	LYS	B	649	-6.261	81.425	110.412	0.00	0.00	H
ATOM	21169	HCB	LYS	B	649	-7.067	82.953	110.149	0.00	0.00	H
ATOM	21170	HCD	LYS	B	649	-3.197	82.319	110.333	0.00	0.00	H
ATOM	21171	HCD	LYS	B	649	-4.004	80.950	109.570	0.00	0.00	H
ATOM	21172	HCE	LYS	B	649	-2.601	83.195	108.028	0.00	0.00	H
ATOM	21173	HCE	LYS	B	649	-1.862	81.643	108.450	0.00	0.00	H
ATOM	21174	HCG	LYS	B	649	-5.521	82.669	108.368	0.00	0.00	H
ATOM	21175	HCG	LYS	B	649	-4.808	83.915	109.389	0.00	0.00	H
ATOM	21176	N	GLY	B	650	-6.700	85.219	111.623	0.00	0.00	N
ATOM	21177	CA	GLY	B	650	-6.794	86.632	111.878	0.00	0.00	C
ATOM	21178	C	GLY	B	650	-7.355	86.927	113.214	0.00	0.00	C
ATOM	21179	O	GLY	B	650	-8.200	87.842	113.347	0.00	0.00	O
ATOM	21180	HN	GLY	B	650	-7.420	84.803	111.126	0.00	0.00	H
ATOM	21181	HCA	GLY	B	650	-5.810	87.103	111.805	0.00	0.00	H
ATOM	21182	HCA	GLY	B	650	-7.426	87.080	111.108	0.00	0.00	H
ATOM	21183	N	ILE	B	651	-6.922	86.188	114.258	0.00	0.00	N
ATOM	21184	CA	ILE	B	651	-7.331	86.269	115.632	0.00	0.00	C
ATOM	21185	C	ILE	B	651	-6.089	86.341	116.441	0.00	0.00	C
ATOM	21186	O	ILE	B	651	-5.891	87.363	117.141	0.00	0.00	O
ATOM	21187	CB	ILE	B	651	-8.236	85.068	116.089	0.00	0.00	C
ATOM	21188	CG1	ILE	B	651	-9.453	84.780	115.150	0.00	0.00	C
ATOM	21189	CG2	ILE	B	651	-8.674	85.210	117.578	0.00	0.00	C
ATOM	21190	CD1	ILE	B	651	-10.530	85.886	115.060	0.00	0.00	C
ATOM	21191	HN	ILE	B	651	-6.238	85.564	114.009	0.00	0.00	H
ATOM	21192	HCA	ILE	B	651	-7.901	87.191	115.793	0.00	0.00	H
ATOM	21193	HCB	ILE	B	651	-7.626	84.163	116.049	0.00	0.00	H
ATOM	21194	HCD1	ILE	B	651	-10.965	86.075	116.037	0.00	0.00	H
ATOM	21195	HCD1	ILE	B	651	-10.112	86.817	114.684	0.00	0.00	H
ATOM	21196	HCD1	ILE	B	651	-11.327	85.571	114.384	0.00	0.00	H
ATOM	21197	HCG1	ILE	B	651	-9.084	84.580	114.140	0.00	0.00	H
ATOM	21198	HCG1	ILE	B	651	-9.944	83.863	115.487	0.00	0.00	H

ATOM	21199	HCG2	ILE	B	651	-7.807	85.208	118.241	0.00	0.00	H
ATOM	21200	HCG2	ILE	B	651	-9.212	86.145	117.736	0.00	0.00	H
ATOM	21201	HCG2	ILE	B	651	-9.313	84.379	117.875	0.00	0.00	H
ATOM	21202	N	PHE	B	652	-5.213	85.303	116.449	0.00	0.00	N
ATOM	21203	CA	PHE	B	652	-4.036	85.216	117.266	0.00	0.00	C
ATOM	21204	C	PHE	B	652	-2.802	84.861	116.521	0.00	0.00	C
ATOM	21205	O	PHE	B	652	-2.862	84.297	115.403	0.00	0.00	O
ATOM	21206	CB	PHE	B	652	-4.311	84.265	118.475	0.00	0.00	C
ATOM	21207	CG	PHE	B	652	-4.809	82.882	118.217	0.00	0.00	C
ATOM	21208	CD1	PHE	B	652	-4.028	81.935	117.516	0.00	0.00	C
ATOM	21209	CD2	PHE	B	652	-6.044	82.453	118.767	0.00	0.00	C
ATOM	21210	CE1	PHE	B	652	-4.449	80.599	117.391	0.00	0.00	C
ATOM	21211	CE2	PHE	B	652	-6.459	81.114	118.661	0.00	0.00	C
ATOM	21212	CZ	PHE	B	652	-5.661	80.186	117.970	0.00	0.00	C
ATOM	21213	HN	PHE	B	652	-5.392	84.550	115.880	0.00	0.00	H
ATOM	21214	HCA	PHE	B	652	-3.824	86.206	117.681	0.00	0.00	H
ATOM	21215	HCB	PHE	B	652	-3.402	84.174	119.073	0.00	0.00	H
ATOM	21216	HCB	PHE	B	652	-5.035	84.769	119.112	0.00	0.00	H
ATOM	21217	HCD1	PHE	B	652	-3.134	82.201	117.104	0.00	0.00	H
ATOM	21218	HCD2	PHE	B	652	-6.642	83.108	119.275	0.00	0.00	H
ATOM	21219	HCE1	PHE	B	652	-3.867	79.927	116.887	0.00	0.00	H
ATOM	21220	HCE2	PHE	B	652	-7.335	80.815	119.093	0.00	0.00	H
ATOM	21221	HCZ	PHE	B	652	-5.965	79.214	117.885	0.00	0.00	H
ATOM	21222	N	ASP	B	653	-1.610	85.111	117.113	0.00	0.00	N
ATOM	21223	CA	ASP	B	653	-0.336	84.580	116.701	0.00	0.00	C
ATOM	21224	C	ASP	B	653	-0.080	83.280	117.402	0.00	0.00	C
ATOM	21225	O	ASP	B	653	-0.863	82.853	118.290	0.00	0.00	O
ATOM	21226	CB	ASP	B	653	0.740	85.700	116.876	0.00	0.00	C
ATOM	21227	CG	ASP	B	653	2.106	85.362	116.421	0.00	0.00	C
ATOM	21228	OD1	ASP	B	653	2.279	84.608	115.441	0.00	0.00	O
ATOM	21229	OD2	ASP	B	653	3.150	85.764	116.989	0.00	0.00	O
ATOM	21230	HN	ASP	B	653	-1.659	85.630	117.919	0.00	0.00	H
ATOM	21231	HCA	ASP	B	653	-0.375	84.343	115.633	0.00	0.00	H
ATOM	21232	HCB	ASP	B	653	0.433	86.564	116.284	0.00	0.00	H
ATOM	21233	HCB	ASP	B	653	0.760	86.020	117.915	0.00	0.00	H
ATOM	21234	N	SER	B	654	0.967	82.498	117.047	0.00	0.00	N
ATOM	21235	CA	SER	B	654	1.096	81.107	117.437	0.00	0.00	C
ATOM	21236	C	SER	B	654	2.489	80.571	117.480	0.00	0.00	C
ATOM	21237	O	SER	B	654	3.185	80.556	116.433	0.00	0.00	O
ATOM	21238	CB	SER	B	654	0.189	80.225	116.527	0.00	0.00	C
ATOM	21239	OG	SER	B	654	0.637	80.263	115.173	0.00	0.00	O
ATOM	21240	HN	SER	B	654	1.584	82.928	116.445	0.00	0.00	H
ATOM	21241	HCA	SER	B	654	0.694	80.997	118.444	0.00	0.00	H
ATOM	21242	HCB	SER	B	654	0.209	79.190	116.879	0.00	0.00	H
ATOM	21243	HCB	SER	B	654	-0.848	80.568	116.565	0.00	0.00	H
ATOM	21244	HOG	SER	B	654	1.594	80.312	115.330	0.00	0.00	H
ATOM	21245	N	ARG	B	655	2.976	80.023	118.622	0.00	0.00	N
ATOM	21246	CA	ARG	B	655	4.232	79.315	118.754	0.00	0.00	C
ATOM	21247	C	ARG	B	655	4.070	77.969	119.367	0.00	0.00	C
ATOM	21248	O	ARG	B	655	3.058	77.665	120.048	0.00	0.00	O
ATOM	21249	CB	ARG	B	655	5.276	80.133	119.576	0.00	0.00	C
ATOM	21250	CG	ARG	B	655	5.680	81.509	118.986	0.00	0.00	C
ATOM	21251	CD	ARG	B	655	6.485	81.455	117.654	0.00	0.00	C
ATOM	21252	NE	ARG	B	655	6.665	82.775	117.137	0.00	0.00	N
ATOM	21253	CZ	ARG	B	655	5.675	83.527	116.651	0.00	0.00	C
ATOM	21254	NH1	ARG	B	655	4.450	83.097	116.410	0.00	0.00	N
ATOM	21255	NH2	ARG	B	655	5.827	84.818	116.437	0.00	0.00	N
ATOM	21256	HN	ARG	B	655	2.392	80.071	119.386	0.00	0.00	H
ATOM	21257	HNE	ARG	B	655	7.536	83.186	117.220	0.00	0.00	H
ATOM	21258	HNH1	ARG	B	655	4.184	82.190	116.490	0.00	0.00	H
ATOM	21259	HNH1	ARG	B	655	3.790	83.718	116.131	0.00	0.00	H
ATOM	21260	HNH2	ARG	B	655	6.689	85.248	116.469	0.00	0.00	H
ATOM	21261	HNH2	ARG	B	655	5.004	85.307	116.343	0.00	0.00	H
ATOM	21262	HCA	ARG	B	655	4.657	79.127	117.765	0.00	0.00	H
ATOM	21263	HCB	ARG	B	655	4.860	80.306	120.570	0.00	0.00	H
ATOM	21264	HCB	ARG	B	655	6.192	79.548	119.709	0.00	0.00	H
ATOM	21265	HCD	ARG	B	655	7.468	81.014	117.843	0.00	0.00	H
ATOM	21266	HCD	ARG	B	655	5.984	80.835	116.908	0.00	0.00	H
ATOM	21267	HCG	ARG	B	655	4.772	82.101	118.863	0.00	0.00	H
ATOM	21268	HCG	ARG	B	655	6.296	82.030	119.726	0.00	0.00	H
ATOM	21269	N	LYS	B	656	5.079	77.080	119.209	0.00	0.00	N
ATOM	21270	CA	LYS	B	656	5.215	75.837	119.905	0.00	0.00	C
ATOM	21271	C	LYS	B	656	6.574	75.663	120.483	0.00	0.00	C
ATOM	21272	O	LYS	B	656	7.570	76.181	119.922	0.00	0.00	O
ATOM	21273	CB	LYS	B	656	4.797	74.624	119.022	0.00	0.00	C
ATOM	21274	CG	LYS	B	656	5.671	74.397	117.756	0.00	0.00	C
ATOM	21275	CD	LYS	B	656	5.411	73.012	117.103	0.00	0.00	C
ATOM	21276	CE	LYS	B	656	6.250	72.752	115.831	0.00	0.00	C
ATOM	21277	NZ	LYS	B	656	7.682	72.673	116.142	0.00	0.00	N
ATOM	21278	HN	LYS	B	656	5.800	77.327	118.610	0.00	0.00	H

ATOM	21279	HNZ	LYS	B	656	8.004	73.567	116.515	0.00	0.00	H
ATOM	21280	HNZ	LYS	B	656	7.845	71.942	116.836	0.00	0.00	H
ATOM	21281	HNZ	LYS	B	656	8.208	72.456	115.295	0.00	0.00	H
ATOM	21282	HCA	LYS	B	656	4.537	75.873	120.755	0.00	0.00	H
ATOM	21283	HCB	LYS	B	656	4.827	73.725	119.645	0.00	0.00	H
ATOM	21284	HCB	LYS	B	656	3.757	74.761	118.712	0.00	0.00	H
ATOM	21285	HCD	LYS	B	656	5.630	72.224	117.829	0.00	0.00	H
ATOM	21286	HCD	LYS	B	656	4.354	72.935	116.840	0.00	0.00	H
ATOM	21287	HCE	LYS	B	656	5.942	71.803	115.384	0.00	0.00	H
ATOM	21288	HCE	LYS	B	656	6.082	73.546	115.100	0.00	0.00	H
ATOM	21289	HCG	LYS	B	656	5.462	75.190	117.033	0.00	0.00	H
ATOM	21290	HCG	LYS	B	656	6.726	74.458	118.029	0.00	0.00	H
ATOM	21291	N	ASN	B	657	6.713	74.887	121.581	0.00	0.00	N
ATOM	21292	CA	ASN	B	657	7.967	74.484	122.175	0.00	0.00	C
ATOM	21293	C	ASN	B	657	7.941	73.018	122.425	0.00	0.00	C
ATOM	21294	O	ASN	B	657	6.996	72.513	123.080	0.00	0.00	O
ATOM	21295	CB	ASN	B	657	8.296	75.286	123.468	0.00	0.00	C
ATOM	21296	CG	ASN	B	657	8.518	76.724	123.218	0.00	0.00	C
ATOM	21297	ND2	ASN	B	657	9.727	77.267	123.005	0.00	0.00	N
ATOM	21298	OD1	ASN	B	657	7.549	77.511	123.205	0.00	0.00	O
ATOM	21299	HN	ASN	B	657	5.877	74.573	121.947	0.00	0.00	H
ATOM	21300	HND2	ASN	B	657	10.540	76.753	122.982	0.00	0.00	H
ATOM	21301	HND2	ASN	B	657	9.777	78.214	122.877	0.00	0.00	H
ATOM	21302	HCA	ASN	B	657	8.790	74.675	121.476	0.00	0.00	H
ATOM	21303	HCB	ASN	B	657	7.483	75.173	124.190	0.00	0.00	H
ATOM	21304	HCB	ASN	B	657	9.200	74.879	123.928	0.00	0.00	H
ATOM	21305	N	VAL	B	658	8.941	72.232	121.959	0.00	0.00	N
ATOM	21306	CA	VAL	B	658	9.039	70.808	122.125	0.00	0.00	C
ATOM	21307	C	VAL	B	658	10.029	70.553	123.193	0.00	0.00	C
ATOM	21308	O	VAL	B	658	11.244	70.549	122.900	0.00	0.00	O
ATOM	21309	CB	VAL	B	658	9.345	70.099	120.758	0.00	0.00	C
ATOM	21310	CG1	VAL	B	658	9.651	68.580	120.919	0.00	0.00	C
ATOM	21311	CG2	VAL	B	658	8.183	70.289	119.746	0.00	0.00	C
ATOM	21312	HN	VAL	B	658	9.667	72.670	121.489	0.00	0.00	H
ATOM	21313	HCA	VAL	B	658	8.098	70.420	122.484	0.00	0.00	H
ATOM	21314	HCB	VAL	B	658	10.233	70.566	120.321	0.00	0.00	H
ATOM	21315	HCG1	VAL	B	658	8.846	68.081	121.460	0.00	0.00	H
ATOM	21316	HCG1	VAL	B	658	9.764	68.101	119.945	0.00	0.00	H
ATOM	21317	HCG1	VAL	B	658	10.580	68.426	121.470	0.00	0.00	H
ATOM	21318	HCG2	VAL	B	658	7.959	71.348	119.603	0.00	0.00	H
ATOM	21319	HCG2	VAL	B	658	8.447	69.865	118.776	0.00	0.00	H
ATOM	21320	HCG2	VAL	B	658	7.285	69.788	120.110	0.00	0.00	H
ATOM	21321	N	LEU	B	659	9.661	70.319	124.475	0.00	0.00	N
ATOM	21322	CA	LEU	B	659	10.600	70.240	125.557	0.00	0.00	C
ATOM	21323	C	LEU	B	659	11.418	69.001	125.449	0.00	0.00	C
ATOM	21324	O	LEU	B	659	12.671	69.031	125.569	0.00	0.00	O
ATOM	21325	CB	LEU	B	659	9.819	70.305	126.903	0.00	0.00	C
ATOM	21326	CG	LEU	B	659	8.913	71.563	127.137	0.00	0.00	C
ATOM	21327	CD1	LEU	B	659	8.277	71.515	128.554	0.00	0.00	C
ATOM	21328	CD2	LEU	B	659	9.623	72.926	126.914	0.00	0.00	C
ATOM	21329	HN	LEU	B	659	8.738	70.142	124.689	0.00	0.00	H
ATOM	21330	HCA	LEU	B	659	11.281	71.097	125.520	0.00	0.00	H
ATOM	21331	HCB	LEU	B	659	9.190	69.414	126.984	0.00	0.00	H
ATOM	21332	HCB	LEU	B	659	10.548	70.234	127.704	0.00	0.00	H
ATOM	21333	HCD1	LEU	B	659	9.034	71.607	129.329	0.00	0.00	H
ATOM	21334	HCD1	LEU	B	659	7.565	72.329	128.687	0.00	0.00	H
ATOM	21335	HCD1	LEU	B	659	7.751	70.574	128.703	0.00	0.00	H
ATOM	21336	HCD2	LEU	B	659	9.921	73.037	125.871	0.00	0.00	H
ATOM	21337	HCD2	LEU	B	659	8.948	73.751	127.151	0.00	0.00	H
ATOM	21338	HCD2	LEU	B	659	10.508	73.014	127.541	0.00	0.00	H
ATOM	21339	HCG	LEU	B	659	8.090	71.521	126.418	0.00	0.00	H
ATOM	21340	N	GLY	B	660	10.762	67.838	125.232	0.00	0.00	N
ATOM	21341	CA	GLY	B	660	11.333	66.530	125.295	0.00	0.00	C
ATOM	21342	C	GLY	B	660	11.687	66.215	126.690	0.00	0.00	C
ATOM	21343	O	GLY	B	660	10.862	66.508	127.589	0.00	0.00	O
ATOM	21344	HN	GLY	B	660	9.804	67.906	125.100	0.00	0.00	H
ATOM	21345	HCA	GLY	B	660	10.586	65.810	124.960	0.00	0.00	H
ATOM	21346	HCA	GLY	B	660	12.202	66.456	124.636	0.00	0.00	H
ATOM	21347	N	HIS	B	661	12.898	65.702	127.010	0.00	0.00	N
ATOM	21348	CA	HIS	B	661	13.363	65.486	128.355	0.00	0.00	C
ATOM	21349	C	HIS	B	661	13.832	66.784	128.930	0.00	0.00	C
ATOM	21350	O	HIS	B	661	15.033	66.890	129.265	0.00	0.00	O
ATOM	21351	CB	HIS	B	661	14.441	64.352	128.381	0.00	0.00	C
ATOM	21352	CG	HIS	B	661	14.006	63.015	127.919	0.00	0.00	C
ATOM	21353	CD2	HIS	B	661	14.744	61.839	128.004	0.00	0.00	C
ATOM	21354	ND1	HIS	B	661	12.852	62.669	127.333	0.00	0.00	N
ATOM	21355	CE1	HIS	B	661	12.877	61.357	127.051	0.00	0.00	C
ATOM	21356	NE2	HIS	B	661	14.048	60.829	127.455	0.00	0.00	N
ATOM	21357	HN	HIS	B	661	13.510	65.517	126.280	0.00	0.00	H
ATOM	21358	HND1	HIS	B	661	12.125	63.275	127.136	0.00	0.00	H

ATOM	21359	HCA	HIS	B	661	12.534	65.149	128.975	0.00	0.00	H
ATOM	21360	HCN	HIS	B	661	15.294	64.651	127.762	0.00	0.00	H
ATOM	21361	HCN	HIS	B	661	14.789	64.236	129.413	0.00	0.00	H
ATOM	21362	HCD2	HIS	B	661	15.672	61.749	128.416	0.00	0.00	H
ATOM	21363	HCE1	HIS	B	661	12.123	60.835	126.596	0.00	0.00	H
ATOM	21364	N	MET	B	662	12.973	67.837	128.985	0.00	0.00	N
ATOM	21365	CA	MET	B	662	13.191	69.240	129.301	0.00	0.00	C
ATOM	21366	C	MET	B	662	14.557	69.558	129.793	0.00	0.00	C
ATOM	21367	O	MET	B	662	15.349	70.168	129.038	0.00	0.00	O
ATOM	21368	CB	MET	B	662	12.090	69.827	130.249	0.00	0.00	C
ATOM	21369	CG	MET	B	662	11.823	71.363	130.183	0.00	0.00	C
ATOM	21370	SD	MET	B	662	13.214	72.478	130.501	0.00	0.00	S
ATOM	21371	CE	MET	B	662	13.624	72.930	128.803	0.00	0.00	C
ATOM	21372	HN	MET	B	662	12.119	67.582	128.639	0.00	0.00	H
ATOM	21373	HCA	MET	B	662	13.060	69.738	128.337	0.00	0.00	H
ATOM	21374	HCN	MET	B	662	11.144	69.328	130.022	0.00	0.00	H
ATOM	21375	HCN	MET	B	662	12.314	69.586	131.286	0.00	0.00	H
ATOM	21376	HCE	MET	B	662	13.710	72.053	128.164	0.00	0.00	H
ATOM	21377	HCE	MET	B	662	12.853	73.587	128.404	0.00	0.00	H
ATOM	21378	HCE	MET	B	662	14.581	73.448	128.808	0.00	0.00	H
ATOM	21379	HCG	MET	B	662	11.389	71.621	129.227	0.00	0.00	H
ATOM	21380	HCG	MET	B	662	11.074	71.601	130.940	0.00	0.00	H
ATOM	21381	N	GLN	B	663	14.939	69.117	131.017	0.00	0.00	N
ATOM	21382	CA	GLN	B	663	16.256	69.197	131.576	0.00	0.00	C
ATOM	21383	C	GLN	B	663	16.316	68.511	132.882	0.00	0.00	C
ATOM	21384	O	GLN	B	663	17.025	67.513	132.982	0.00	0.00	O
ATOM	21385	CB	GLN	B	663	16.812	70.665	131.568	0.00	0.00	C
ATOM	21386	CG	GLN	B	663	18.041	70.868	130.638	0.00	0.00	C
ATOM	21387	CD	GLN	B	663	18.988	71.908	131.044	0.00	0.00	C
ATOM	21388	NE2	GLN	B	663	20.176	72.077	130.477	0.00	0.00	N
ATOM	21389	OE1	GLN	B	663	18.768	72.673	131.990	0.00	0.00	O
ATOM	21390	HN	GLN	B	663	14.294	68.592	131.479	0.00	0.00	H
ATOM	21391	HNE2	GLN	B	663	20.425	71.565	129.696	0.00	0.00	H
ATOM	21392	HNE2	GLN	B	663	20.777	72.714	130.858	0.00	0.00	H
ATOM	21393	HCA	GLN	B	663	16.853	68.585	130.891	0.00	0.00	H
ATOM	21394	HCN	GLN	B	663	16.057	71.374	131.227	0.00	0.00	H
ATOM	21395	HCN	GLN	B	663	17.062	70.958	132.584	0.00	0.00	H
ATOM	21396	HCG	GLN	B	663	18.594	69.947	130.647	0.00	0.00	H
ATOM	21397	HCG	GLN	B	663	17.722	71.069	129.613	0.00	0.00	H
ATOM	21398	N	GLN	B	664	15.596	68.911	133.928	0.00	0.00	N
ATOM	21399	CA	GLN	B	664	15.343	68.214	135.187	0.00	0.00	C
ATOM	21400	C	GLN	B	664	16.432	68.325	136.165	0.00	0.00	C
ATOM	21401	O	GLN	B	664	16.176	68.579	137.338	0.00	0.00	O
ATOM	21402	CB	GLN	B	664	14.941	66.696	135.075	0.00	0.00	C
ATOM	21403	CG	GLN	B	664	13.657	66.350	134.272	0.00	0.00	C
ATOM	21404	CD	GLN	B	664	13.749	66.614	132.831	0.00	0.00	C
ATOM	21405	NE2	GLN	B	664	14.643	66.012	132.037	0.00	0.00	N
ATOM	21406	OE1	GLN	B	664	12.993	67.453	132.307	0.00	0.00	O
ATOM	21407	HN	GLN	B	664	15.209	69.763	133.838	0.00	0.00	H
ATOM	21408	HNE2	GLN	B	664	14.726	66.289	131.123	0.00	0.00	H
ATOM	21409	HNE2	GLN	B	664	15.235	65.341	132.396	0.00	0.00	H
ATOM	21410	HCA	GLN	B	664	14.470	68.718	135.618	0.00	0.00	H
ATOM	21411	HCN	GLN	B	664	15.770	66.111	134.676	0.00	0.00	H
ATOM	21412	HCN	GLN	B	664	14.772	66.314	136.087	0.00	0.00	H
ATOM	21413	HCG	GLN	B	664	13.444	65.285	134.381	0.00	0.00	H
ATOM	21414	HCG	GLN	B	664	12.815	66.904	134.698	0.00	0.00	H
ATOM	21415	N	GLY	B	665	17.649	68.023	135.751	0.00	0.00	N
ATOM	21416	CA	GLY	B	665	18.857	67.824	136.501	0.00	0.00	C
ATOM	21417	C	GLY	B	665	19.432	68.932	137.295	0.00	0.00	C
ATOM	21418	O	GLY	B	665	20.596	69.331	137.063	0.00	0.00	O
ATOM	21419	HN	GLY	B	665	17.665	67.853	134.807	0.00	0.00	H
ATOM	21420	HCA	GLY	B	665	18.683	66.991	137.183	0.00	0.00	H
ATOM	21421	HCA	GLY	B	665	19.614	67.524	135.776	0.00	0.00	H
ATOM	21422	N	GLY	B	666	18.695	69.466	138.285	0.00	0.00	N
ATOM	21423	CA	GLY	B	666	19.111	70.438	139.253	0.00	0.00	C
ATOM	21424	C	GLY	B	666	19.121	69.958	140.642	0.00	0.00	C
ATOM	21425	O	GLY	B	666	18.782	68.787	140.936	0.00	0.00	O
ATOM	21426	HN	GLY	B	666	17.786	69.172	138.260	0.00	0.00	H
ATOM	21427	HCA	GLY	B	666	20.106	70.829	139.023	0.00	0.00	H
ATOM	21428	HCA	GLY	B	666	18.405	71.267	139.218	0.00	0.00	H
ATOM	21429	N	SER	B	667	19.477	70.845	141.596	0.00	0.00	N
ATOM	21430	CA	SER	B	667	19.458	70.601	143.007	0.00	0.00	C
ATOM	21431	C	SER	B	667	18.048	70.403	143.487	0.00	0.00	C
ATOM	21432	O	SER	B	667	17.237	71.325	143.224	0.00	0.00	O
ATOM	21433	CB	SER	B	667	20.160	71.780	143.723	0.00	0.00	C
ATOM	21434	OG	SER	B	667	20.284	71.520	145.114	0.00	0.00	O
ATOM	21435	HN	SER	B	667	19.732	71.730	141.296	0.00	0.00	H
ATOM	21436	HCA	SER	B	667	20.072	69.717	143.188	0.00	0.00	H
ATOM	21437	HCN	SER	B	667	21.160	71.939	143.311	0.00	0.00	H
ATOM	21438	HCN	SER	B	667	19.586	72.701	143.591	0.00	0.00	H

ATOM	21439	HOG	SER	B	667	20.986	70.862	145.233	0.00	0.00	H
ATOM	21440	N	PRO	B	668	17.582	69.281	144.123	0.00	0.00	N
ATOM	21441	CA	PRO	B	668	16.173	68.988	144.313	0.00	0.00	C
ATOM	21442	C	PRO	B	668	15.397	69.932	145.109	0.00	0.00	C
ATOM	21443	O	PRO	B	668	15.973	70.698	145.871	0.00	0.00	O
ATOM	21444	CB	PRO	B	668	16.148	67.570	144.947	0.00	0.00	C
ATOM	21445	CG	PRO	B	668	17.573	67.352	145.471	0.00	0.00	C
ATOM	21446	CD	PRO	B	668	18.440	68.227	144.567	0.00	0.00	C
ATOM	21447	HCA	PRO	B	668	15.713	68.944	143.321	0.00	0.00	H
ATOM	21448	HCB	PRO	B	668	15.412	67.452	145.748	0.00	0.00	H
ATOM	21449	HCB	PRO	B	668	15.922	66.826	144.188	0.00	0.00	H
ATOM	21450	HCD	PRO	B	668	19.300	68.600	145.132	0.00	0.00	H
ATOM	21451	HCD	PRO	B	668	18.788	67.652	143.706	0.00	0.00	H
ATOM	21452	HCG	PRO	B	668	17.662	67.712	146.494	0.00	0.00	H
ATOM	21453	HCG	PRO	B	668	17.878	66.304	145.433	0.00	0.00	H
ATOM	21454	N	THR	B	669	14.076	69.939	145.036	0.00	0.00	N
ATOM	21455	CA	THR	B	669	13.211	70.731	145.886	0.00	0.00	C
ATOM	21456	C	THR	B	669	13.221	70.325	147.317	0.00	0.00	C
ATOM	21457	O	THR	B	669	13.531	69.135	147.578	0.00	0.00	O
ATOM	21458	CB	THR	B	669	11.736	70.713	145.382	0.00	0.00	C
ATOM	21459	CG2	THR	B	669	11.630	71.429	144.019	0.00	0.00	C
ATOM	21460	OG1	THR	B	669	11.192	69.389	145.350	0.00	0.00	O
ATOM	21461	HN	THR	B	669	13.661	69.385	144.365	0.00	0.00	H
ATOM	21462	HCA	THR	B	669	13.578	71.760	145.827	0.00	0.00	H
ATOM	21463	HCB	THR	B	669	11.087	71.267	146.064	0.00	0.00	H
ATOM	21464	HCG2	THR	B	669	12.319	70.988	143.305	0.00	0.00	H
ATOM	21465	HCG2	THR	B	669	10.613	71.374	143.635	0.00	0.00	H
ATOM	21466	HCG2	THR	B	669	11.895	72.482	144.122	0.00	0.00	H
ATOM	21467	HOG1	THR	B	669	10.282	69.563	145.042	0.00	0.00	H
ATOM	21468	N	PRO	B	670	12.846	71.158	148.342	0.00	0.00	N
ATOM	21469	CA	PRO	B	670	12.694	70.702	149.703	0.00	0.00	C
ATOM	21470	C	PRO	B	670	11.783	69.567	149.810	0.00	0.00	C
ATOM	21471	O	PRO	B	670	12.161	68.579	150.428	0.00	0.00	O
ATOM	21472	CB	PRO	B	670	12.226	71.933	150.514	0.00	0.00	C
ATOM	21473	CG	PRO	B	670	11.759	72.926	149.444	0.00	0.00	C
ATOM	21474	CD	PRO	B	670	12.595	72.565	148.214	0.00	0.00	C
ATOM	21475	HCA	PRO	B	670	13.683	70.410	150.072	0.00	0.00	H
ATOM	21476	HCB	PRO	B	670	11.425	71.703	151.225	0.00	0.00	H
ATOM	21477	HCB	PRO	B	670	13.066	72.355	151.073	0.00	0.00	H
ATOM	21478	HCD	PRO	B	670	12.047	72.856	147.318	0.00	0.00	H
ATOM	21479	HCD	PRO	B	670	13.543	73.106	148.227	0.00	0.00	H
ATOM	21480	HCG	PRO	B	670	10.692	72.788	149.235	0.00	0.00	H
ATOM	21481	HCG	PRO	B	670	11.939	73.957	149.742	0.00	0.00	H
ATOM	21482	N	PHE	B	671	10.625	69.570	149.168	0.00	0.00	N
ATOM	21483	CA	PHE	B	671	9.705	68.469	149.093	0.00	0.00	C
ATOM	21484	C	PHE	B	671	10.388	67.221	148.656	0.00	0.00	C
ATOM	21485	O	PHE	B	671	10.369	66.261	149.465	0.00	0.00	O
ATOM	21486	CB	PHE	B	671	8.488	68.815	148.187	0.00	0.00	C
ATOM	21487	CG	PHE	B	671	7.410	67.779	148.225	0.00	0.00	C
ATOM	21488	CD1	PHE	B	671	6.243	67.973	149.002	0.00	0.00	C
ATOM	21489	CD2	PHE	B	671	7.534	66.570	147.496	0.00	0.00	C
ATOM	21490	CE1	PHE	B	671	5.240	66.985	149.059	0.00	0.00	C
ATOM	21491	CE2	PHE	B	671	6.537	65.580	147.554	0.00	0.00	C
ATOM	21492	CZ	PHE	B	671	5.389	65.786	148.338	0.00	0.00	C
ATOM	21493	HN	PHE	B	671	10.383	70.385	148.701	0.00	0.00	H
ATOM	21494	HCA	PHE	B	671	9.313	68.327	150.107	0.00	0.00	H
ATOM	21495	HCB	PHE	B	671	8.080	69.779	148.507	0.00	0.00	H
ATOM	21496	HCB	PHE	B	671	8.824	68.956	147.159	0.00	0.00	H
ATOM	21497	HCD1	PHE	B	671	6.116	68.837	149.535	0.00	0.00	H
ATOM	21498	HCD2	PHE	B	671	8.354	66.400	146.911	0.00	0.00	H
ATOM	21499	HCE1	PHE	B	671	4.404	67.138	149.627	0.00	0.00	H
ATOM	21500	HCE2	PHE	B	671	6.647	64.711	147.025	0.00	0.00	H
ATOM	21501	HCZ	PHE	B	671	4.663	65.067	148.381	0.00	0.00	H
ATOM	21502	N	ASP	B	672	11.043	67.099	147.467	0.00	0.00	N
ATOM	21503	CA	ASP	B	672	11.709	65.878	147.089	0.00	0.00	C
ATOM	21504	C	ASP	B	672	12.816	65.496	148.009	0.00	0.00	C
ATOM	21505	O	ASP	B	672	12.893	64.286	148.334	0.00	0.00	O
ATOM	21506	CB	ASP	B	672	12.189	65.883	145.615	0.00	0.00	C
ATOM	21507	CG	ASP	B	672	11.104	65.643	144.655	0.00	0.00	C
ATOM	21508	OD1	ASP	B	672	10.268	64.723	144.792	0.00	0.00	O
ATOM	21509	OD2	ASP	B	672	11.056	66.282	143.590	0.00	0.00	O
ATOM	21510	HN	ASP	B	672	11.064	67.846	146.850	0.00	0.00	H
ATOM	21511	HCA	ASP	B	672	10.959	65.083	147.174	0.00	0.00	H
ATOM	21512	HCB	ASP	B	672	12.697	66.824	145.389	0.00	0.00	H
ATOM	21513	HCB	ASP	B	672	12.903	65.073	145.455	0.00	0.00	H
ATOM	21514	N	ARG	B	673	13.683	66.398	148.539	0.00	0.00	N
ATOM	21515	CA	ARG	B	673	14.673	66.080	149.543	0.00	0.00	C
ATOM	21516	C	ARG	B	673	14.040	65.402	150.713	0.00	0.00	C
ATOM	21517	O	ARG	B	673	14.382	64.229	151.000	0.00	0.00	O
ATOM	21518	CB	ARG	B	673	15.442	67.346	150.030	0.00	0.00	C

ATOM	21519	CG	ARG	B	673	16.366	68.008	148.975	0.00	0.00		C
ATOM	21520	CD	ARG	B	673	16.999	69.346	149.447	0.00	0.00		C
ATOM	21521	NE	ARG	B	673	17.328	70.176	148.342	0.00	0.00		N
ATOM	21522	CZ	ARG	B	673	18.357	71.007	148.218	0.00	0.00		C
ATOM	21523	NH1	ARG	B	673	19.352	71.260	149.047	0.00	0.00		N
ATOM	21524	NH2	ARG	B	673	18.396	71.694	147.101	0.00	0.00		N
ATOM	21525	HN	ARG	B	673	13.615	67.305	148.233	0.00	0.00		H
ATOM	21526	HNE	ARG	B	673	16.750	70.212	147.582	0.00	0.00		H
ATOM	21527	HNH1	ARG	B	673	19.433	70.836	149.907	0.00	0.00		H
ATOM	21528	HNH1	ARG	B	673	19.987	71.900	148.709	0.00	0.00		H
ATOM	21529	HNH2	ARG	B	673	17.699	71.545	146.463	0.00	0.00		H
ATOM	21530	HNH2	ARG	B	673	19.151	72.280	146.976	0.00	0.00		H
ATOM	21531	HCA	ARG	B	673	15.402	65.397	149.093	0.00	0.00		H
ATOM	21532	HCB	ARG	B	673	14.709	68.079	150.363	0.00	0.00		H
ATOM	21533	HCB	ARG	B	673	16.067	67.079	150.888	0.00	0.00		H
ATOM	21534	HCD	ARG	B	673	16.285	69.910	150.045	0.00	0.00		H
ATOM	21535	HCD	ARG	B	673	17.876	69.137	150.063	0.00	0.00		H
ATOM	21536	HCG	ARG	B	673	17.166	67.306	148.729	0.00	0.00		H
ATOM	21537	HCG	ARG	B	673	15.786	68.184	148.071	0.00	0.00		H
ATOM	21538	N	ASN	B	674	13.065	66.024	151.420	0.00	0.00		N
ATOM	21539	CA	ASN	B	674	12.388	65.496	152.574	0.00	0.00		C
ATOM	21540	C	ASN	B	674	11.720	64.196	152.295	0.00	0.00		C
ATOM	21541	O	ASN	B	674	11.922	63.220	153.059	0.00	0.00		O
ATOM	21542	CB	ASN	B	674	11.347	66.533	153.087	0.00	0.00		C
ATOM	21543	CG	ASN	B	674	11.947	67.766	153.624	0.00	0.00		C
ATOM	21544	ND2	ASN	B	674	12.716	67.752	154.715	0.00	0.00		N
ATOM	21545	OD1	ASN	B	674	11.723	68.882	153.118	0.00	0.00		O
ATOM	21546	HN	ASN	B	674	12.786	66.885	151.104	0.00	0.00		H
ATOM	21547	HND2	ASN	B	674	12.938	66.915	155.142	0.00	0.00		H
ATOM	21548	HND2	ASN	B	674	13.022	68.580	155.080	0.00	0.00		H
ATOM	21549	HCA	ASN	B	674	13.133	65.336	153.360	0.00	0.00		H
ATOM	21550	HCB	ASN	B	674	10.662	66.794	152.275	0.00	0.00		H
ATOM	21551	HCB	ASN	B	674	10.750	66.093	153.889	0.00	0.00		H
ATOM	21552	N	PHE	B	675	10.919	64.058	151.213	0.00	0.00		N
ATOM	21553	CA	PHE	B	675	10.260	62.853	150.810	0.00	0.00		C
ATOM	21554	C	PHE	B	675	11.234	61.744	150.608	0.00	0.00		C
ATOM	21555	O	PHE	B	675	11.098	60.713	151.305	0.00	0.00		O
ATOM	21556	CB	PHE	B	675	9.396	63.166	149.553	0.00	0.00		C
ATOM	21557	CG	PHE	B	675	8.508	62.054	149.123	0.00	0.00		C
ATOM	21558	CD1	PHE	B	675	7.467	61.596	149.966	0.00	0.00		C
ATOM	21559	CD2	PHE	B	675	8.669	61.447	147.857	0.00	0.00		C
ATOM	21560	CE1	PHE	B	675	6.627	60.541	149.566	0.00	0.00		C
ATOM	21561	CE2	PHE	B	675	7.834	60.390	147.457	0.00	0.00		C
ATOM	21562	CZ	PHE	B	675	6.816	59.933	148.314	0.00	0.00		C
ATOM	21563	HN	PHE	B	675	10.780	64.825	150.656	0.00	0.00		H
ATOM	21564	HCA	PHE	B	675	9.581	62.581	151.622	0.00	0.00		H
ATOM	21565	HCB	PHE	B	675	8.755	64.029	149.760	0.00	0.00		H
ATOM	21566	HCB	PHE	B	675	10.063	63.461	148.740	0.00	0.00		H
ATOM	21567	HCD1	PHE	B	675	7.310	62.032	150.877	0.00	0.00		H
ATOM	21568	HCD2	PHE	B	675	9.395	61.772	147.215	0.00	0.00		H
ATOM	21569	HCE1	PHE	B	675	5.881	60.217	150.185	0.00	0.00		H
ATOM	21570	HCE2	PHE	B	675	7.975	59.950	146.547	0.00	0.00		H
ATOM	21571	HCZ	PHE	B	675	6.214	59.158	148.030	0.00	0.00		H
ATOM	21572	N	ALA	B	676	12.305	61.865	149.787	0.00	0.00		N
ATOM	21573	CA	ALA	B	676	13.337	60.881	149.588	0.00	0.00		C
ATOM	21574	C	ALA	B	676	13.984	60.441	150.855	0.00	0.00		C
ATOM	21575	O	ALA	B	676	14.090	59.214	151.121	0.00	0.00		O
ATOM	21576	CB	ALA	B	676	14.374	61.502	148.624	0.00	0.00		C
ATOM	21577	HN	ALA	B	676	12.418	62.690	149.312	0.00	0.00		H
ATOM	21578	HCA	ALA	B	676	12.901	60.010	149.094	0.00	0.00		H
ATOM	21579	HCB	ALA	B	676	14.822	62.393	149.062	0.00	0.00		H
ATOM	21580	HCB	ALA	B	676	15.164	60.790	148.393	0.00	0.00		H
ATOM	21581	HCB	ALA	B	676	13.894	61.791	147.691	0.00	0.00		H
ATOM	21582	N	THR	B	677	14.406	61.386	151.730	0.00	0.00		N
ATOM	21583	CA	THR	B	677	14.948	61.130	153.036	0.00	0.00		C
ATOM	21584	C	THR	B	677	14.051	60.252	153.845	0.00	0.00		C
ATOM	21585	O	THR	B	677	14.501	59.156	154.270	0.00	0.00		O
ATOM	21586	CB	THR	B	677	15.257	62.487	153.739	0.00	0.00		C
ATOM	21587	CG2	THR	B	677	15.931	62.355	155.108	0.00	0.00		C
ATOM	21588	OG1	THR	B	677	16.172	63.257	152.964	0.00	0.00		O
ATOM	21589	HN	THR	B	677	14.344	62.304	151.454	0.00	0.00		H
ATOM	21590	HCA	THR	B	677	15.904	60.622	152.883	0.00	0.00		H
ATOM	21591	HCB	THR	B	677	14.339	63.065	153.869	0.00	0.00		H
ATOM	21592	HCG2	THR	B	677	15.281	61.842	155.818	0.00	0.00		H
ATOM	21593	HCG2	THR	B	677	16.859	61.806	154.994	0.00	0.00		H
ATOM	21594	HCG2	THR	B	677	16.170	63.346	155.492	0.00	0.00		H
ATOM	21595	HOG1	THR	B	677	15.620	63.598	152.253	0.00	0.00		H
ATOM	21596	N	LYS	B	678	12.753	60.602	154.051	0.00	0.00		N
ATOM	21597	CA	LYS	B	678	11.765	59.787	154.716	0.00	0.00		C
ATOM	21598	C	LYS	B	678	11.635	58.429	154.110	0.00	0.00		C

ATOM	21599	O	LYS	B	678	11.692	57.431	154.870	0.00	0.00	O
ATOM	21600	CB	LYS	B	678	10.368	60.479	154.733	0.00	0.00	C
ATOM	21601	CG	LYS	B	678	10.260	61.714	155.670	0.00	0.00	C
ATOM	21602	CD	LYS	B	678	8.811	62.262	155.810	0.00	0.00	C
ATOM	21603	CE	LYS	B	678	8.201	62.822	154.502	0.00	0.00	C
ATOM	21604	NZ	LYS	B	678	6.864	63.369	154.756	0.00	0.00	N
ATOM	21605	HN	LYS	B	678	12.472	61.454	153.709	0.00	0.00	H
ATOM	21606	HNZ	LYS	B	678	6.257	62.633	155.122	0.00	0.00	H
ATOM	21607	HNZ	LYS	B	678	6.924	64.125	155.439	0.00	0.00	H
ATOM	21608	HNZ	LYS	B	678	6.467	63.729	153.887	0.00	0.00	H
ATOM	21609	HCA	LYS	B	678	12.086	59.666	155.756	0.00	0.00	H
ATOM	21610	HCB	LYS	B	678	10.113	60.773	153.714	0.00	0.00	H
ATOM	21611	HCB	LYS	B	678	9.619	59.752	155.063	0.00	0.00	H
ATOM	21612	HCD	LYS	B	678	8.165	61.469	156.197	0.00	0.00	H
ATOM	21613	HCD	LYS	B	678	8.825	63.063	156.554	0.00	0.00	H
ATOM	21614	HCE	LYS	B	678	8.837	63.613	154.098	0.00	0.00	H
ATOM	21615	HCE	LYS	B	678	8.102	62.031	153.757	0.00	0.00	H
ATOM	21616	HCG	LYS	B	678	10.606	61.429	156.668	0.00	0.00	H
ATOM	21617	HCG	LYS	B	678	10.917	62.511	155.317	0.00	0.00	H
ATOM	21618	N	MET	B	679	11.464	58.269	152.771	0.00	0.00	N
ATOM	21619	CA	MET	B	679	11.370	57.001	152.090	0.00	0.00	C
ATOM	21620	C	MET	B	679	12.494	56.098	152.470	0.00	0.00	C
ATOM	21621	O	MET	B	679	12.233	54.982	152.981	0.00	0.00	O
ATOM	21622	CB	MET	B	679	11.303	57.126	150.536	0.00	0.00	C
ATOM	21623	CG	MET	B	679	10.229	58.099	149.966	0.00	0.00	C
ATOM	21624	SD	MET	B	679	9.386	57.491	148.486	0.00	0.00	S
ATOM	21625	CE	MET	B	679	8.126	56.516	149.326	0.00	0.00	C
ATOM	21626	HN	MET	B	679	11.376	59.069	152.255	0.00	0.00	H
ATOM	21627	HCA	MET	B	679	10.430	56.541	152.411	0.00	0.00	H
ATOM	21628	HCB	MET	B	679	12.278	57.433	150.148	0.00	0.00	H
ATOM	21629	HCB	MET	B	679	11.116	56.122	150.147	0.00	0.00	H
ATOM	21630	HCE	MET	B	679	7.497	57.162	149.934	0.00	0.00	H
ATOM	21631	HCE	MET	B	679	7.503	56.017	148.586	0.00	0.00	H
ATOM	21632	HCE	MET	B	679	8.609	55.775	149.954	0.00	0.00	H
ATOM	21633	HCG	MET	B	679	9.497	58.386	150.724	0.00	0.00	H
ATOM	21634	HCG	MET	B	679	10.725	59.005	149.629	0.00	0.00	H
ATOM	21635	N	GLY	B	680	13.777	56.514	152.327	0.00	0.00	N
ATOM	21636	CA	GLY	B	680	14.934	55.755	152.725	0.00	0.00	C
ATOM	21637	C	GLY	B	680	14.966	55.392	154.165	0.00	0.00	C
ATOM	21638	O	GLY	B	680	15.161	54.196	154.505	0.00	0.00	O
ATOM	21639	HN	GLY	B	680	13.907	57.389	151.940	0.00	0.00	H
ATOM	21640	HCA	GLY	B	680	14.995	54.851	152.117	0.00	0.00	H
ATOM	21641	HCA	GLY	B	680	15.820	56.342	152.498	0.00	0.00	H
ATOM	21642	N	ALA	B	681	14.760	56.347	155.106	0.00	0.00	N
ATOM	21643	CA	ALA	B	681	14.720	56.111	156.525	0.00	0.00	C
ATOM	21644	C	ALA	B	681	13.709	55.099	156.953	0.00	0.00	C
ATOM	21645	O	ALA	B	681	14.031	54.196	157.765	0.00	0.00	O
ATOM	21646	CB	ALA	B	681	14.508	57.463	157.249	0.00	0.00	C
ATOM	21647	HN	ALA	B	681	14.647	57.252	154.802	0.00	0.00	H
ATOM	21648	HCA	ALA	B	681	15.707	55.737	156.806	0.00	0.00	H
ATOM	21649	HCB	ALA	B	681	15.287	58.172	156.965	0.00	0.00	H
ATOM	21650	HCB	ALA	B	681	13.537	57.891	156.992	0.00	0.00	H
ATOM	21651	HCB	ALA	B	681	14.552	57.323	158.332	0.00	0.00	H
ATOM	21652	N	LYS	B	682	12.454	55.124	156.451	0.00	0.00	N
ATOM	21653	CA	LYS	B	682	11.459	54.102	156.652	0.00	0.00	C
ATOM	21654	C	LYS	B	682	11.919	52.791	156.096	0.00	0.00	C
ATOM	21655	O	LYS	B	682	12.033	51.780	156.846	0.00	0.00	O
ATOM	21656	CB	LYS	B	682	10.139	54.603	155.992	0.00	0.00	C
ATOM	21657	CG	LYS	B	682	8.885	53.713	156.243	0.00	0.00	C
ATOM	21658	CD	LYS	B	682	8.058	54.138	157.485	0.00	0.00	C
ATOM	21659	CE	LYS	B	682	6.783	53.280	157.663	0.00	0.00	C
ATOM	21660	NZ	LYS	B	682	5.978	53.781	158.781	0.00	0.00	N
ATOM	21661	HN	LYS	B	682	12.223	55.872	155.896	0.00	0.00	H
ATOM	21662	HNZ	LYS	B	682	5.707	54.748	158.602	0.00	0.00	H
ATOM	21663	HNZ	LYS	B	682	5.138	53.210	158.882	0.00	0.00	H
ATOM	21664	HNZ	LYS	B	682	6.521	53.738	159.643	0.00	0.00	H
ATOM	21665	HCA	LYS	B	682	11.283	53.997	157.728	0.00	0.00	H
ATOM	21666	HCB	LYS	B	682	9.930	55.621	156.335	0.00	0.00	H
ATOM	21667	HCB	LYS	B	682	10.303	54.678	154.915	0.00	0.00	H
ATOM	21668	HCD	LYS	B	682	8.680	54.051	158.380	0.00	0.00	H
ATOM	21669	HCD	LYS	B	682	7.762	55.185	157.375	0.00	0.00	H
ATOM	21670	HCE	LYS	B	682	6.175	53.314	156.756	0.00	0.00	H
ATOM	21671	HCE	LYS	B	682	7.056	52.241	157.863	0.00	0.00	H
ATOM	21672	HCG	LYS	B	682	8.238	53.777	155.364	0.00	0.00	H
ATOM	21673	HCG	LYS	B	682	9.179	52.668	156.349	0.00	0.00	H
ATOM	21674	N	ALA	B	683	12.254	52.715	154.782	0.00	0.00	N
ATOM	21675	CA	ALA	B	683	12.668	51.541	154.076	0.00	0.00	C
ATOM	21676	C	ALA	B	683	13.693	50.760	154.799	0.00	0.00	C
ATOM	21677	O	ALA	B	683	13.450	49.562	155.064	0.00	0.00	O
ATOM	21678	CB	ALA	B	683	13.188	51.943	152.676	0.00	0.00	C





ATOM	21759	O	ALA	B	688	15.790	43.129	159.567	0.00	0.00	O
ATOM	21760	CB	ALA	B	688	16.828	46.328	159.602	0.00	0.00	C
ATOM	21761	HN	ALA	B	688	15.746	46.902	157.457	0.00	0.00	H
ATOM	21762	HCA	ALA	B	688	17.140	44.717	158.232	0.00	0.00	H
ATOM	21763	HC	ALA	B	688	16.020	46.936	160.013	0.00	0.00	H
ATOM	21764	HC	ALA	B	688	17.358	45.847	160.426	0.00	0.00	H
ATOM	21765	HC	ALA	B	688	17.530	46.982	159.082	0.00	0.00	H
ATOM	21766	N	GLY	B	689	14.111	44.644	159.649	0.00	0.00	N
ATOM	21767	CA	GLY	B	689	13.111	43.741	160.157	0.00	0.00	C
ATOM	21768	C	GLY	B	689	12.896	42.531	159.324	0.00	0.00	C
ATOM	21769	O	GLY	B	689	12.982	41.388	159.837	0.00	0.00	O
ATOM	21770	HN	GLY	B	689	13.862	45.566	159.529	0.00	0.00	H
ATOM	21771	HCA	GLY	B	689	13.381	43.450	161.175	0.00	0.00	H
ATOM	21772	HCA	GLY	B	689	12.165	44.283	160.209	0.00	0.00	H
ATOM	21773	N	LYS	B	690	12.621	42.662	158.006	0.00	0.00	N
ATOM	21774	CA	LYS	B	690	12.485	41.576	157.072	0.00	0.00	C
ATOM	21775	C	LYS	B	690	13.697	40.711	156.975	0.00	0.00	C
ATOM	21776	O	LYS	B	690	13.538	39.468	156.906	0.00	0.00	O
ATOM	21777	CB	LYS	B	690	11.998	42.086	155.682	0.00	0.00	C
ATOM	21778	CG	LYS	B	690	10.507	42.539	155.672	0.00	0.00	C
ATOM	21779	CD	LYS	B	690	9.487	41.359	155.655	0.00	0.00	C
ATOM	21780	CE	LYS	B	690	8.059	41.743	156.111	0.00	0.00	C
ATOM	21781	NZ	LYS	B	690	7.265	40.541	156.403	0.00	0.00	N
ATOM	21782	HN	LYS	B	690	12.486	43.556	157.691	0.00	0.00	H
ATOM	21783	HNZ	LYS	B	690	7.733	40.014	157.123	0.00	0.00	H
ATOM	21784	HNZ	LYS	B	690	6.348	40.819	156.751	0.00	0.00	H
ATOM	21785	HNZ	LYS	B	690	7.138	39.963	155.587	0.00	0.00	H
ATOM	21786	HCA	LYS	B	690	11.691	40.951	157.476	0.00	0.00	H
ATOM	21787	HC	LYS	B	690	12.628	42.926	155.376	0.00	0.00	H
ATOM	21788	HC	LYS	B	690	12.122	41.302	154.930	0.00	0.00	H
ATOM	21789	HCD	LYS	B	690	9.423	40.961	154.645	0.00	0.00	H
ATOM	21790	HCD	LYS	B	690	9.840	40.550	156.293	0.00	0.00	H
ATOM	21791	HCE	LYS	B	690	8.107	42.338	157.026	0.00	0.00	H
ATOM	21792	HCE	LYS	B	690	7.562	42.335	155.340	0.00	0.00	H
ATOM	21793	HCG	LYS	B	690	10.328	43.184	156.537	0.00	0.00	H
ATOM	21794	HCG	LYS	B	690	10.339	43.147	154.782	0.00	0.00	H
ATOM	21795	N	ILE	B	691	14.955	41.215	157.001	0.00	0.00	N
ATOM	21796	CA	ILE	B	691	16.161	40.426	157.137	0.00	0.00	C
ATOM	21797	C	ILE	B	691	16.134	39.624	158.386	0.00	0.00	C
ATOM	21798	O	ILE	B	691	16.302	38.387	158.287	0.00	0.00	O

ATOM	21839	O	GLU	B	693	12.234	35.495	158.967	0.00	0.00	O
ATOM	21840	CB	GLU	B	693	11.333	38.422	159.485	0.00	0.00	C
ATOM	21841	CG	GLU	B	693	10.057	37.646	159.036	0.00	0.00	C
ATOM	21842	CD	GLU	B	693	8.945	38.501	158.573	0.00	0.00	C
ATOM	21843	OE1	GLU	B	693	8.939	39.744	158.657	0.00	0.00	O
ATOM	21844	OE2	GLU	B	693	7.937	38.023	158.017	0.00	0.00	O
ATOM	21845	HN	GLU	B	693	13.384	39.496	160.130	0.00	0.00	H
ATOM	21846	HCA	GLU	B	693	12.302	37.120	160.924	0.00	0.00	H
ATOM	21847	HCB	GLU	B	693	11.045	39.118	160.280	0.00	0.00	H
ATOM	21848	HCB	GLU	B	693	11.653	39.016	158.632	0.00	0.00	H
ATOM	21849	HCG	GLU	B	693	10.311	36.996	158.197	0.00	0.00	H
ATOM	21850	HCG	GLU	B	693	9.696	37.025	159.857	0.00	0.00	H
ATOM	21851	N	SER	B	694	14.075	36.572	158.252	0.00	0.00	N
ATOM	21852	CA	SER	B	694	14.504	35.597	157.286	0.00	0.00	C
ATOM	21853	C	SER	B	694	15.779	34.936	157.676	0.00	0.00	C
ATOM	21854	O	SER	B	694	16.197	34.013	156.933	0.00	0.00	O
ATOM	21855	CB	SER	B	694	14.669	36.307	155.916	0.00	0.00	C
ATOM	21856	OG	SER	B	694	13.466	36.963	155.519	0.00	0.00	O
ATOM	21857	HN	SER	B	694	14.682	37.305	158.351	0.00	0.00	H
ATOM	21858	HCA	SER	B	694	13.757	34.807	157.161	0.00	0.00	H
ATOM	21859	HCB	SER	B	694	15.477	37.042	155.952	0.00	0.00	H
ATOM	21860	HCB	SER	B	694	14.915	35.573	155.148	0.00	0.00	H
ATOM	21861	HOG	SER	B	694	13.457	37.794	156.019	0.00	0.00	H
ATOM	21862	N	TYR	B	695	16.480	35.293	158.786	0.00	0.00	N
ATOM	21863	CA	TYR	B	695	17.750	34.739	159.188	0.00	0.00	C
ATOM	21864	C	TYR	B	695	17.544	33.429	159.858	0.00	0.00	C
ATOM	21865	O	TYR	B	695	16.789	33.408	160.860	0.00	0.00	O
ATOM	21866	CB	TYR	B	695	18.475	35.772	160.103	0.00	0.00	C
ATOM	21867	CG	TYR	B	695	19.799	35.302	160.601	0.00	0.00	C
ATOM	21868	CD1	TYR	B	695	20.916	35.241	159.734	0.00	0.00	C
ATOM	21869	CD2	TYR	B	695	19.966	34.897	161.947	0.00	0.00	C
ATOM	21870	CE1	TYR	B	695	22.164	34.790	160.201	0.00	0.00	C
ATOM	21871	CE2	TYR	B	695	21.212	34.436	162.411	0.00	0.00	C
ATOM	21872	CZ	TYR	B	695	22.312	34.380	161.537	0.00	0.00	C
ATOM	21873	OH	TYR	B	695	23.511	33.936	161.975	0.00	0.00	O
ATOM	21874	HN	TYR	B	695	16.078	35.934	159.387	0.00	0.00	H
ATOM	21875	HCA	TYR	B	695	18.375	34.582	158.308	0.00	0.00	H
ATOM	21876	HCB	TYR	B	695	18.621	36.707	159.554	0.00	0.00	H
ATOM	21877	HCB	TYR	B	695	17.822	36.012	160.948	0.00	0.00	H
ATOM	21878	HCD1	TYR	B	695	20.830	35.528	158.758	0.00	0.00	H
ATOM	21879	HCD2	TYR	B	695	19.178	34.929	162.598	0.00	0.00	H
ATOM	21880	HCE1	TYR	B	695	22.966	34.761	159.568	0.00	0.00	H
ATOM	21881	HCE2	TYR	B	695	21.316	34.141	163.384	0.00	0.00	H
ATOM	21882	HOH	TYR	B	695	23.620	33.648	162.908	0.00	0.00	H
ATOM	21883	N	ARG	B	696	18.118	32.284	159.399	0.00	0.00	N
ATOM	21884	CA	ARG	B	696	17.820	30.983	159.953	0.00	0.00	C
ATOM	21885	C	ARG	B	696	19.012	30.087	159.953	0.00	0.00	C
ATOM	21886	O	ARG	B	696	19.883	30.261	160.843	0.00	0.00	O
ATOM	21887	CB	ARG	B	696	16.550	30.414	159.242	0.00	0.00	C
ATOM	21888	CG	ARG	B	696	15.858	29.275	160.050	0.00	0.00	C
ATOM	21889	CD	ARG	B	696	14.828	28.464	159.227	0.00	0.00	C
ATOM	21890	NE	ARG	B	696	15.523	27.529	158.404	0.00	0.00	N
ATOM	21891	CZ	ARG	B	696	15.313	26.219	158.289	0.00	0.00	C
ATOM	21892	NH1	ARG	B	696	14.379	25.513	158.907	0.00	0.00	N
ATOM	21893	NH2	ARG	B	696	16.160	25.625	157.471	0.00	0.00	N
ATOM	21894	HN	ARG	B	696	18.719	32.341	158.644	0.00	0.00	H
ATOM	21895	HNE	ARG	B	696	16.265	27.826	157.879	0.00	0.00	H
ATOM	21896	HNH1	ARG	B	696	13.763	25.949	159.507	0.00	0.00	H
ATOM	21897	HNH1	ARG	B	696	14.320	24.561	158.758	0.00	0.00	H
ATOM	21898	HNH2	ARG	B	696	16.819	26.196	157.082	0.00	0.00	H
ATOM	21899	HNH2	ARG	B	696	16.119	24.678	157.291	0.00	0.00	H
ATOM	21900	HCA	ARG	B	696	17.558	31.090	161.012	0.00	0.00	H
ATOM	21901	HCB	ARG	B	696	15.814	31.216	159.121	0.00	0.00	H
ATOM	21902	HCB	ARG	B	696	16.807	30.080	158.234	0.00	0.00	H
ATOM	21903	HCD	ARG	B	696	14.138	27.967	159.914	0.00	0.00	H
ATOM	21904	HCD	ARG	B	696	14.239	29.135	158.594	0.00	0.00	H
ATOM	21905	HCG	ARG	B	696	16.603	28.586	160.458	0.00	0.00	H
ATOM	21906	HCG	ARG	B	696	15.341	29.728	160.901	0.00	0.00	H
ATOM	21907	N	ASN	B	697	19.151	29.084	159.050	0.00	0.00	N
ATOM	21908	CA	ASN	B	697	20.182	28.091	158.946	0.00	0.00	C
ATOM	21909	C	ASN	B	697	21.461	28.646	158.418	0.00	0.00	C
ATOM	21910	O	ASN	B	697	21.942	28.287	157.315	0.00	0.00	O
ATOM	21911	CB	ASN	B	697	19.597	26.895	158.124	0.00	0.00	C
ATOM	21912	CG	ASN	B	697	18.969	27.248	156.829	0.00	0.00	C
ATOM	21913	ND2	ASN	B	697	19.485	26.864	155.660	0.00	0.00	N
ATOM	21914	OD1	ASN	B	697	17.886	27.879	156.778	0.00	0.00	O
ATOM	21915	HN	ASN	B	697	18.489	28.977	158.367	0.00	0.00	H
ATOM	21916	HND2	ASN	B	697	20.312	26.363	155.634	0.00	0.00	H
ATOM	21917	HND2	ASN	B	697	19.025	27.093	154.840	0.00	0.00	H
ATOM	21918	HCA	ASN	B	697	20.398	27.703	159.947	0.00	0.00	H

ATOM	21919	HCB	ASN	B	697	20.389	26.160	157.956	0.00	0.00	H
ATOM	21920	HCB	ASN	B	697	18.834	26.395	158.726	0.00	0.00	H
ATOM	21921	N	GLY	B	698	22.074	29.593	159.162	0.00	0.00	N
ATOM	21922	CA	GLY	B	698	23.314	30.259	158.883	0.00	0.00	C
ATOM	21923	C	GLY	B	698	23.115	31.378	157.942	0.00	0.00	C
ATOM	21924	O	GLY	B	698	23.539	32.528	158.197	0.00	0.00	O
ATOM	21925	HN	GLY	B	698	21.527	29.888	159.888	0.00	0.00	H
ATOM	21926	HCA	GLY	B	698	23.730	30.632	159.822	0.00	0.00	H
ATOM	21927	HCA	GLY	B	698	24.035	29.560	158.453	0.00	0.00	H
ATOM	21928	N	ARG	B	699	22.441	31.101	156.810	0.00	0.00	N
ATOM	21929	CA	ARG	B	699	22.046	32.028	155.793	0.00	0.00	C
ATOM	21930	C	ARG	B	699	20.752	32.718	156.074	0.00	0.00	C
ATOM	21931	O	ARG	B	699	20.041	32.439	157.079	0.00	0.00	O
ATOM	21932	CB	ARG	B	699	22.021	31.274	154.425	0.00	0.00	C
ATOM	21933	CG	ARG	B	699	20.905	30.193	154.283	0.00	0.00	C
ATOM	21934	CD	ARG	B	699	20.712	29.701	152.829	0.00	0.00	C
ATOM	21935	NE	ARG	B	699	20.101	30.715	152.027	0.00	0.00	N
ATOM	21936	CZ	ARG	B	699	19.970	30.711	150.700	0.00	0.00	C
ATOM	21937	NH1	ARG	B	699	20.452	29.736	149.940	0.00	0.00	N
ATOM	21938	NH2	ARG	B	699	19.314	31.761	150.231	0.00	0.00	N
ATOM	21939	HN	ARG	B	699	22.181	30.182	156.757	0.00	0.00	H
ATOM	21940	HNE	ARG	B	699	19.708	31.477	152.449	0.00	0.00	H
ATOM	21941	HNH1	ARG	B	699	20.896	29.001	150.378	0.00	0.00	H
ATOM	21942	HNH1	ARG	B	699	20.404	29.723	148.984	0.00	0.00	H
ATOM	21943	HNH2	ARG	B	699	19.033	32.397	150.897	0.00	0.00	H
ATOM	21944	HNH2	ARG	B	699	19.113	31.883	149.301	0.00	0.00	H
ATOM	21945	HCA	ARG	B	699	22.811	32.808	155.716	0.00	0.00	H
ATOM	21946	HCB	ARG	B	699	21.908	32.012	153.625	0.00	0.00	H
ATOM	21947	HCB	ARG	B	699	22.994	30.796	154.267	0.00	0.00	H
ATOM	21948	HCD	ARG	B	699	21.683	29.408	152.417	0.00	0.00	H
ATOM	21949	HCD	ARG	B	699	20.062	28.820	152.835	0.00	0.00	H
ATOM	21950	HCG	ARG	B	699	21.171	29.334	154.903	0.00	0.00	H
ATOM	21951	HCG	ARG	B	699	19.947	30.572	154.646	0.00	0.00	H
ATOM	21952	N	ILE	B	700	20.337	33.611	155.143	0.00	0.00	N
ATOM	21953	CA	ILE	B	700	19.035	34.198	155.045	0.00	0.00	C
ATOM	21954	C	ILE	B	700	18.256	33.470	154.004	0.00	0.00	C
ATOM	21955	O	ILE	B	700	18.796	33.118	152.921	0.00	0.00	O
ATOM	21956	CB	ILE	B	700	19.069	35.751	154.827	0.00	0.00	C
ATOM	21957	CG1	ILE	B	700	19.620	36.213	153.439	0.00	0.00	C
ATOM	21958	CG2	ILE	B	700	19.834	36.455	155.988	0.00	0.00	C
ATOM	21959	CD1	ILE	B	700	19.138	37.626	153.034	0.00	0.00	C
ATOM	21960	HN	ILE	B	700	20.961	33.823	154.433	0.00	0.00	H
ATOM	21961	HCA	ILE	B	700	18.517	34.044	155.991	0.00	0.00	H
ATOM	21962	HCB	ILE	B	700	18.027	36.086	154.891	0.00	0.00	H
ATOM	21963	HCD1	ILE	B	700	18.054	37.637	152.923	0.00	0.00	H
ATOM	21964	HCD1	ILE	B	700	19.416	38.371	153.773	0.00	0.00	H
ATOM	21965	HCD1	ILE	B	700	19.585	37.910	152.083	0.00	0.00	H
ATOM	21966	HCG1	ILE	B	700	20.712	36.179	153.440	0.00	0.00	H
ATOM	21967	HCG1	ILE	B	700	19.283	35.547	152.645	0.00	0.00	H
ATOM	21968	HCG2	ILE	B	700	19.343	36.256	156.938	0.00	0.00	H
ATOM	21969	HCG2	ILE	B	700	20.867	36.108	156.044	0.00	0.00	H
ATOM	21970	HCG2	ILE	B	700	19.853	37.535	155.859	0.00	0.00	H
ATOM	21971	N	PHE	B	701	16.959	33.174	154.245	0.00	0.00	N
ATOM	21972	CA	PHE	B	701	16.064	32.577	153.294	0.00	0.00	C
ATOM	21973	C	PHE	B	701	14.755	33.276	153.353	0.00	0.00	C
ATOM	21974	O	PHE	B	701	13.964	33.039	154.296	0.00	0.00	O
ATOM	21975	CB	PHE	B	701	15.966	31.041	153.531	0.00	0.00	C
ATOM	21976	CG	PHE	B	701	15.235	30.351	152.432	0.00	0.00	C
ATOM	21977	CD1	PHE	B	701	15.878	30.096	151.198	0.00	0.00	C
ATOM	21978	CD2	PHE	B	701	13.884	29.961	152.585	0.00	0.00	C
ATOM	21979	CE1	PHE	B	701	15.189	29.472	150.142	0.00	0.00	C
ATOM	21980	CE2	PHE	B	701	13.192	29.339	151.529	0.00	0.00	C
ATOM	21981	CZ	PHE	B	701	13.844	29.098	150.306	0.00	0.00	C
ATOM	21982	HN	PHE	B	701	16.632	33.406	155.118	0.00	0.00	H
ATOM	21983	HCA	PHE	B	701	16.459	32.723	152.282	0.00	0.00	H
ATOM	21984	HCB	PHE	B	701	16.971	30.616	153.601	0.00	0.00	H
ATOM	21985	HCB	PHE	B	701	15.485	30.852	154.495	0.00	0.00	H
ATOM	21986	HCD1	PHE	B	701	16.855	30.364	151.061	0.00	0.00	H
ATOM	21987	HCD2	PHE	B	701	13.392	30.135	153.465	0.00	0.00	H
ATOM	21988	HCE1	PHE	B	701	15.664	29.293	149.254	0.00	0.00	H
ATOM	21989	HCE2	PHE	B	701	12.214	29.065	151.648	0.00	0.00	H
ATOM	21990	HCZ	PHE	B	701	13.339	28.651	149.536	0.00	0.00	H
ATOM	21991	N	ALA	B	702	14.433	34.171	152.391	0.00	0.00	N
ATOM	21992	CA	ALA	B	702	13.178	34.837	152.235	0.00	0.00	C
ATOM	21993	C	ALA	B	702	12.521	34.311	151.014	0.00	0.00	C
ATOM	21994	O	ALA	B	702	13.048	34.512	149.892	0.00	0.00	O
ATOM	21995	CB	ALA	B	702	13.427	36.363	152.142	0.00	0.00	C
ATOM	21996	HN	ALA	B	702	15.104	34.383	151.744	0.00	0.00	H
ATOM	21997	HCA	ALA	B	702	12.525	34.664	153.098	0.00	0.00	H
ATOM	21998	HCB	ALA	B	702	13.994	36.704	153.006	0.00	0.00	H

ATOM	21999	HCB	ALA	B	702	13.992	36.616	151.245	0.00	0.00	H
ATOM	22000	HCB	ALA	B	702	12.478	36.903	152.124	0.00	0.00	H
ATOM	22001	N	ASN	B	703	11.340	33.660	151.086	0.00	0.00	N
ATOM	22002	CA	ASN	B	703	10.548	33.211	149.971	0.00	0.00	C
ATOM	22003	C	ASN	B	703	9.139	33.635	150.209	0.00	0.00	C
ATOM	22004	O	ASN	B	703	8.247	32.774	150.392	0.00	0.00	O
ATOM	22005	CB	ASN	B	703	10.798	31.681	149.802	0.00	0.00	C
ATOM	22006	CG	ASN	B	703	10.264	31.053	148.577	0.00	0.00	C
ATOM	22007	ND2	ASN	B	703	9.580	31.705	147.630	0.00	0.00	N
ATOM	22008	OD1	ASN	B	703	10.458	29.836	148.376	0.00	0.00	O
ATOM	22009	HN	ASN	B	703	10.997	33.480	151.976	0.00	0.00	H
ATOM	22010	HND2	ASN	B	703	9.385	32.646	147.721	0.00	0.00	H
ATOM	22011	HND2	ASN	B	703	9.276	31.218	146.850	0.00	0.00	H
ATOM	22012	HCA	ASN	B	703	10.868	33.691	149.043	0.00	0.00	H
ATOM	22013	HCB	ASN	B	703	11.878	31.509	149.786	0.00	0.00	H
ATOM	22014	HCB	ASN	B	703	10.392	31.148	150.665	0.00	0.00	H
ATOM	22015	N	THR	B	704	8.836	34.959	150.254	0.00	0.00	N
ATOM	22016	CA	THR	B	704	7.548	35.519	150.612	0.00	0.00	C
ATOM	22017	C	THR	B	704	7.194	36.741	149.816	0.00	0.00	C
ATOM	22018	O	THR	B	704	8.022	37.692	149.819	0.00	0.00	O
ATOM	22019	CB	THR	B	704	7.408	35.866	152.130	0.00	0.00	C
ATOM	22020	CG2	THR	B	704	7.719	34.702	153.094	0.00	0.00	C
ATOM	22021	OG1	THR	B	704	8.232	36.967	152.508	0.00	0.00	O
ATOM	22022	HN	THR	B	704	9.549	35.554	150.037	0.00	0.00	H
ATOM	22023	HCA	THR	B	704	6.792	34.756	150.429	0.00	0.00	H
ATOM	22024	HCB	THR	B	704	6.366	36.150	152.299	0.00	0.00	H
ATOM	22025	HCG2	THR	B	704	7.111	33.829	152.848	0.00	0.00	H
ATOM	22026	HCG2	THR	B	704	8.774	34.429	153.038	0.00	0.00	H
ATOM	22027	HCG2	THR	B	704	7.494	35.001	154.120	0.00	0.00	H
ATOM	22028	HOG1	THR	B	704	7.683	37.525	153.092	0.00	0.00	H
ATOM	22029	N	PRO	B	705	5.998	36.927	149.163	0.00	0.00	N
ATOM	22030	CA	PRO	B	705	5.573	38.193	148.604	0.00	0.00	C
ATOM	22031	C	PRO	B	705	5.837	39.356	149.448	0.00	0.00	C
ATOM	22032	O	PRO	B	705	6.492	40.293	149.003	0.00	0.00	O
ATOM	22033	CB	PRO	B	705	4.067	38.009	148.298	0.00	0.00	C
ATOM	22034	CG	PRO	B	705	3.950	36.505	148.031	0.00	0.00	C
ATOM	22035	CD	PRO	B	705	5.009	35.904	148.969	0.00	0.00	C
ATOM	22036	HCA	PRO	B	705	6.085	38.310	147.648	0.00	0.00	H
ATOM	22037	HCB	PRO	B	705	3.439	38.277	149.155	0.00	0.00	H
ATOM	22038	HCB	PRO	B	705	3.749	38.592	147.429	0.00	0.00	H
ATOM	22039	HCD	PRO	B	705	4.550	35.641	149.927	0.00	0.00	H
ATOM	22040	HCD	PRO	B	705	5.436	35.008	148.509	0.00	0.00	H
ATOM	22041	HCG	PRO	B	705	2.947	36.127	148.248	0.00	0.00	H
ATOM	22042	HCG	PRO	B	705	4.199	36.288	146.988	0.00	0.00	H
ATOM	22043	N	ASP	B	706	5.447	39.331	150.712	0.00	0.00	N
ATOM	22044	CA	ASP	B	706	5.606	40.368	151.693	0.00	0.00	C
ATOM	22045	C	ASP	B	706	6.996	40.847	151.931	0.00	0.00	C
ATOM	22046	O	ASP	B	706	7.124	41.848	152.672	0.00	0.00	O
ATOM	22047	CB	ASP	B	706	4.916	39.905	153.012	0.00	0.00	C
ATOM	22048	CG	ASP	B	706	5.565	38.754	153.662	0.00	0.00	C
ATOM	22049	OD1	ASP	B	706	6.727	38.825	154.120	0.00	0.00	O
ATOM	22050	OD2	ASP	B	706	4.971	37.661	153.765	0.00	0.00	O
ATOM	22051	HN	ASP	B	706	4.996	38.527	151.010	0.00	0.00	H
ATOM	22052	HCA	ASP	B	706	5.043	41.233	151.326	0.00	0.00	H
ATOM	22053	HCB	ASP	B	706	4.901	40.728	153.730	0.00	0.00	H
ATOM	22054	HCB	ASP	B	706	3.874	39.655	152.796	0.00	0.00	H
ATOM	22055	N	SER	B	707	8.093	40.269	151.381	0.00	0.00	N
ATOM	22056	CA	SER	B	707	9.430	40.793	151.483	0.00	0.00	C
ATOM	22057	C	SER	B	707	9.913	41.404	150.212	0.00	0.00	C
ATOM	22058	O	SER	B	707	11.035	41.961	150.239	0.00	0.00	O
ATOM	22059	CB	SER	B	707	10.363	39.679	152.022	0.00	0.00	C
ATOM	22060	OG	SER	B	707	10.277	38.501	151.241	0.00	0.00	O
ATOM	22061	HN	SER	B	707	7.985	39.456	150.874	0.00	0.00	H
ATOM	22062	HCA	SER	B	707	9.480	41.598	152.220	0.00	0.00	H
ATOM	22063	HCB	SER	B	707	11.397	40.017	152.032	0.00	0.00	H
ATOM	22064	HCB	SER	B	707	10.093	39.420	153.047	0.00	0.00	H
ATOM	22065	HOG	SER	B	707	9.551	37.996	151.644	0.00	0.00	H
ATOM	22066	N	GLY	B	708	9.181	41.438	149.068	0.00	0.00	N
ATOM	22067	CA	GLY	B	708	9.603	42.028	147.821	0.00	0.00	C
ATOM	22068	C	GLY	B	708	8.661	43.085	147.405	0.00	0.00	C
ATOM	22069	O	GLY	B	708	7.666	42.792	146.693	0.00	0.00	O
ATOM	22070	HN	GLY	B	708	8.306	41.040	149.083	0.00	0.00	H
ATOM	22071	HCA	GLY	B	708	10.610	42.444	147.865	0.00	0.00	H
ATOM	22072	HCA	GLY	B	708	9.635	41.243	147.073	0.00	0.00	H
ATOM	22073	N	CYS	B	709	8.839	44.336	147.889	0.00	0.00	N
ATOM	22074	CA	CYS	B	709	7.787	45.326	147.967	0.00	0.00	C
ATOM	22075	C	CYS	B	709	8.080	46.650	147.371	0.00	0.00	C
ATOM	22076	O	CYS	B	709	9.259	47.054	147.297	0.00	0.00	O
ATOM	22077	CB	CYS	B	709	7.399	45.507	149.460	0.00	0.00	C
ATOM	22078	SG	CYS	B	709	6.623	44.036	150.168	0.00	0.00	S

ATOM	22079	HN	CYS	B	709	9.712	44.528	148.256	0.00	0.00		H
ATOM	22080	HCA	CYS	B	709	6.905	44.971	147.438	0.00	0.00		H
ATOM	22081	HCN	CYS	B	709	8.285	45.760	150.047	0.00	0.00		H
ATOM	22082	HCN	CYS	B	709	6.680	46.321	149.571	0.00	0.00		H
ATOM	22083	HSG	CYS	B	709	7.656	43.224	149.823	0.00	0.00		H
ATOM	22084	N	VAL	B	710	7.039	47.444	147.022	0.00	0.00		N
ATOM	22085	CA	VAL	B	710	7.102	48.841	146.676	0.00	0.00		C
ATOM	22086	C	VAL	B	710	6.728	49.611	147.883	0.00	0.00		C
ATOM	22087	O	VAL	B	710	5.604	49.388	148.393	0.00	0.00		O
ATOM	22088	CB	VAL	B	710	6.174	49.252	145.480	0.00	0.00		C
ATOM	22089	CG1	VAL	B	710	6.405	50.732	145.049	0.00	0.00		C
ATOM	22090	CG2	VAL	B	710	6.345	48.324	144.255	0.00	0.00		C
ATOM	22091	HN	VAL	B	710	6.177	47.032	147.083	0.00	0.00		H
ATOM	22092	HCA	VAL	B	710	8.122	49.101	146.399	0.00	0.00		H
ATOM	22093	HCN	VAL	B	710	5.128	49.160	145.793	0.00	0.00		H
ATOM	22094	HCG1	VAL	B	710	7.438	50.888	144.731	0.00	0.00		H
ATOM	22095	HCG1	VAL	B	710	5.746	51.000	144.223	0.00	0.00		H
ATOM	22096	HCG1	VAL	B	710	6.189	51.416	145.872	0.00	0.00		H
ATOM	22097	HCG2	VAL	B	710	6.021	47.317	144.516	0.00	0.00		H
ATOM	22098	HCG2	VAL	B	710	5.727	48.672	143.426	0.00	0.00		H
ATOM	22099	HCG2	VAL	B	710	7.386	48.296	143.929	0.00	0.00		H
ATOM	22100	N	LEU	B	711	7.542	50.571	148.379	0.00	0.00		N
ATOM	22101	CA	LEU	B	711	7.164	51.476	149.433	0.00	0.00		C
ATOM	22102	C	LEU	B	711	6.468	52.634	148.821	0.00	0.00		C
ATOM	22103	O	LEU	B	711	7.143	53.404	148.104	0.00	0.00		O
ATOM	22104	CB	LEU	B	711	8.396	51.904	150.280	0.00	0.00		C
ATOM	22105	CG	LEU	B	711	8.097	52.983	151.373	0.00	0.00		C
ATOM	22106	CD1	LEU	B	711	6.950	52.591	152.342	0.00	0.00		C
ATOM	22107	CD2	LEU	B	711	9.389	53.354	152.143	0.00	0.00		C
ATOM	22108	HN	LEU	B	711	8.374	50.700	147.913	0.00	0.00		H
ATOM	22109	HCA	LEU	B	711	6.475	50.974	150.115	0.00	0.00		H
ATOM	22110	HCN	LEU	B	711	8.811	51.014	150.755	0.00	0.00		H
ATOM	22111	HCN	LEU	B	711	9.164	52.294	149.603	0.00	0.00		H
ATOM	22112	HCD1	LEU	B	711	7.058	51.562	152.668	0.00	0.00		H
ATOM	22113	HCD1	LEU	B	711	6.932	53.237	153.220	0.00	0.00		H
ATOM	22114	HCD1	LEU	B	711	5.986	52.688	151.842	0.00	0.00		H
ATOM	22115	HCD2	LEU	B	711	10.171	53.663	151.447	0.00	0.00		H
ATOM	22116	HCD2	LEU	B	711	9.194	54.188	152.817	0.00	0.00		H
ATOM	22117	HCD2	LEU	B	711	9.751	52.507	152.725	0.00	0.00		H
ATOM	22118	HCG	LEU	B	711	7.768	53.892	150.869	0.00	0.00		H
ATOM	22119	N	GLY	B	712	5.144	52.855	149.000	0.00	0.00		N
ATOM	22120	CA	GLY	B	712	4.419	53.934	148.380	0.00	0.00		C
ATOM	22121	C	GLY	B	712	3.476	54.658	149.249	0.00	0.00		C
ATOM	22122	O	GLY	B	712	3.027	54.103	150.278	0.00	0.00		O
ATOM	22123	HN	GLY	B	712	4.667	52.229	149.550	0.00	0.00		H
ATOM	22124	HCA	GLY	B	712	5.101	54.679	147.965	0.00	0.00		H
ATOM	22125	HCA	GLY	B	712	3.852	53.511	147.555	0.00	0.00		H
ATOM	22126	N	MET	B	713	3.074	55.902	148.895	0.00	0.00		N
ATOM	22127	CA	MET	B	713	2.162	56.723	149.633	0.00	0.00		C
ATOM	22128	C	MET	B	713	0.771	56.429	149.208	0.00	0.00		C
ATOM	22129	O	MET	B	713	0.426	56.574	148.009	0.00	0.00		O
ATOM	22130	CB	MET	B	713	2.544	58.222	149.463	0.00	0.00		C
ATOM	22131	CG	MET	B	713	1.662	59.169	150.319	0.00	0.00		C
ATOM	22132	SD	MET	B	713	2.326	60.852	150.314	0.00	0.00		S
ATOM	22133	CE	MET	B	713	0.809	61.716	150.781	0.00	0.00		C
ATOM	22134	HN	MET	B	713	3.388	56.260	148.064	0.00	0.00		H
ATOM	22135	HCA	MET	B	713	2.264	56.498	150.699	0.00	0.00		H
ATOM	22136	HCN	MET	B	713	3.590	58.352	149.750	0.00	0.00		H
ATOM	22137	HCN	MET	B	713	2.459	58.508	148.411	0.00	0.00		H
ATOM	22138	HCE	MET	B	713	0.035	61.546	150.031	0.00	0.00		H
ATOM	22139	HCE	MET	B	713	0.460	61.365	151.752	0.00	0.00		H
ATOM	22140	HCE	MET	B	713	1.014	62.785	150.839	0.00	0.00		H
ATOM	22141	HCG	MET	B	713	0.646	59.168	149.916	0.00	0.00		H
ATOM	22142	HCG	MET	B	713	1.626	58.828	151.356	0.00	0.00		H
ATOM	22143	N	ARG	B	714	-0.109	55.980	150.127	0.00	0.00		N
ATOM	22144	CA	ARG	B	714	-1.495	55.712	149.907	0.00	0.00		C
ATOM	22145	C	ARG	B	714	-2.242	56.484	150.933	0.00	0.00		C
ATOM	22146	O	ARG	B	714	-2.197	56.146	152.144	0.00	0.00		O
ATOM	22147	CB	ARG	B	714	-1.750	54.178	149.977	0.00	0.00		C
ATOM	22148	CG	ARG	B	714	-0.920	53.310	148.980	0.00	0.00		C
ATOM	22149	CD	ARG	B	714	-1.420	53.258	147.518	0.00	0.00		C
ATOM	22150	NE	ARG	B	714	-1.205	54.461	146.775	0.00	0.00		N
ATOM	22151	CZ	ARG	B	714	-1.535	54.591	145.483	0.00	0.00		C
ATOM	22152	NH1	ARG	B	714	-1.892	53.578	144.705	0.00	0.00		N
ATOM	22153	NH2	ARG	B	714	-1.536	55.779	144.912	0.00	0.00		N
ATOM	22154	HN	ARG	B	714	0.223	55.839	151.016	0.00	0.00		H
ATOM	22155	HNE	ARG	B	714	-0.772	55.204	147.205	0.00	0.00		H
ATOM	22156	HNH1	ARG	B	714	-1.909	52.684	145.065	0.00	0.00		H
ATOM	22157	HNH1	ARG	B	714	-2.135	53.739	143.786	0.00	0.00		H
ATOM	22158	HNH2	ARG	B	714	-1.445	56.560	145.457	0.00	0.00		H

ATOM	22159	HNH2	ARG	B	714	-1.694	55.869	143.967	0.00	0.00		H
ATOM	22160	HCA	ARG	B	714	-1.821	56.059	148.922	0.00	0.00		H
ATOM	22161	HCB	ARG	B	714	-1.507	53.841	150.990	0.00	0.00		H
ATOM	22162	HCB	ARG	B	714	-2.815	53.984	149.824	0.00	0.00		H
ATOM	22163	HCD	ARG	B	714	-0.892	52.439	147.020	0.00	0.00		H
ATOM	22164	HCD	ARG	B	714	-2.487	53.014	147.518	0.00	0.00		H
ATOM	22165	HCG	ARG	B	714	0.133	53.603	148.992	0.00	0.00		H
ATOM	22166	HCG	ARG	B	714	-0.959	52.281	149.347	0.00	0.00		H
ATOM	22167	N	LYS	B	715	-2.915	57.601	150.573	0.00	0.00		N
ATOM	22168	CA	LYS	B	715	-3.679	58.435	151.456	0.00	0.00		C
ATOM	22169	C	LYS	B	715	-2.823	58.999	152.545	0.00	0.00		C
ATOM	22170	O	LYS	B	715	-1.876	59.756	152.224	0.00	0.00		O
ATOM	22171	CB	LYS	B	715	-4.979	57.714	151.941	0.00	0.00		C
ATOM	22172	CG	LYS	B	715	-5.897	57.135	150.827	0.00	0.00		C
ATOM	22173	CD	LYS	B	715	-6.378	58.188	149.789	0.00	0.00		C
ATOM	22174	CE	LYS	B	715	-7.663	57.793	149.023	0.00	0.00		C
ATOM	22175	NZ	LYS	B	715	-8.814	57.670	149.926	0.00	0.00		N
ATOM	22176	HN	LYS	B	715	-2.854	57.875	149.642	0.00	0.00		H
ATOM	22177	HNZ	LYS	B	715	-8.815	58.427	150.584	0.00	0.00		H
ATOM	22178	HNZ	LYS	B	715	-9.681	57.683	149.389	0.00	0.00		H
ATOM	22179	HNZ	LYS	B	715	-8.752	56.790	150.438	0.00	0.00		H
ATOM	22180	HCA	LYS	B	715	-3.998	59.288	150.857	0.00	0.00		H
ATOM	22181	HCB	LYS	B	715	-4.707	56.885	152.600	0.00	0.00		H
ATOM	22182	HCB	LYS	B	715	-5.565	58.419	152.536	0.00	0.00		H
ATOM	22183	HCD	LYS	B	715	-6.554	59.142	150.286	0.00	0.00		H
ATOM	22184	HCD	LYS	B	715	-5.581	58.350	149.058	0.00	0.00		H
ATOM	22185	HCE	LYS	B	715	-7.888	58.566	148.284	0.00	0.00		H
ATOM	22186	HCE	LYS	B	715	-7.515	56.848	148.496	0.00	0.00		H
ATOM	22187	HCG	LYS	B	715	-5.375	56.328	150.304	0.00	0.00		H
ATOM	22188	HCG	LYS	B	715	-6.758	56.684	151.328	0.00	0.00		H
ATOM	22189	N	ARG	B	716	-3.010	58.685	153.852	0.00	0.00		N
ATOM	22190	CA	ARG	B	716	-2.193	59.128	154.949	0.00	0.00		C
ATOM	22191	C	ARG	B	716	-1.006	58.257	155.185	0.00	0.00		C
ATOM	22192	O	ARG	B	716	-0.181	58.635	156.052	0.00	0.00		O
ATOM	22193	CB	ARG	B	716	-3.049	59.203	156.258	0.00	0.00		C
ATOM	22194	CG	ARG	B	716	-4.333	60.075	156.161	0.00	0.00		C
ATOM	22195	CD	ARG	B	716	-4.857	60.629	157.517	0.00	0.00		C
ATOM	22196	NE	ARG	B	716	-3.925	61.409	158.284	0.00	0.00		N
ATOM	22197	CZ	ARG	B	716	-3.329	62.548	157.914	0.00	0.00		C
ATOM	22198	NH1	ARG	B	716	-3.469	63.112	156.733	0.00	0.00		N
ATOM	22199	NH2	ARG	B	716	-2.531	63.219	158.723	0.00	0.00		N
ATOM	22200	HN	ARG	B	716	-3.734	58.077	154.058	0.00	0.00		H
ATOM	22201	HNE	ARG	B	716	-3.711	61.093	159.172	0.00	0.00		H
ATOM	22202	HNH1	ARG	B	716	-4.068	62.746	156.083	0.00	0.00		H
ATOM	22203	HNH1	ARG	B	716	-2.924	63.863	156.503	0.00	0.00		H
ATOM	22204	HNH2	ARG	B	716	-2.318	62.898	159.606	0.00	0.00		H
ATOM	22205	HNH2	ARG	B	716	-2.197	64.058	158.396	0.00	0.00		H
ATOM	22206	HCA	ARG	B	716	-1.815	60.135	154.743	0.00	0.00		H
ATOM	22207	HCB	ARG	B	716	-3.339	58.193	156.565	0.00	0.00		H
ATOM	22208	HCB	ARG	B	716	-2.413	59.610	157.049	0.00	0.00		H
ATOM	22209	HCD	ARG	B	716	-5.752	61.231	157.332	0.00	0.00		H
ATOM	22210	HCD	ARG	B	716	-5.164	59.782	158.135	0.00	0.00		H
ATOM	22211	HCG	ARG	B	716	-4.154	60.906	155.489	0.00	0.00		H
ATOM	22212	HCG	ARG	B	716	-5.127	59.477	155.705	0.00	0.00		H
ATOM	22213	N	ALA	B	717	-0.818	57.066	154.560	0.00	0.00		N
ATOM	22214	CA	ALA	B	717	0.070	56.032	155.014	0.00	0.00		C
ATOM	22215	C	ALA	B	717	1.141	55.701	154.032	0.00	0.00		C
ATOM	22216	O	ALA	B	717	0.863	55.558	152.817	0.00	0.00		O
ATOM	22217	CB	ALA	B	717	-0.822	54.810	155.344	0.00	0.00		C
ATOM	22218	HN	ALA	B	717	-1.347	56.846	153.788	0.00	0.00		H
ATOM	22219	HCA	ALA	B	717	0.553	56.315	155.956	0.00	0.00		H
ATOM	22220	HCB	ALA	B	717	-1.630	55.100	156.020	0.00	0.00		H
ATOM	22221	HCB	ALA	B	717	-1.263	54.392	154.435	0.00	0.00		H
ATOM	22222	HCB	ALA	B	717	-0.235	54.039	155.845	0.00	0.00		H
ATOM	22223	N	LEU	B	718	2.402	55.497	154.483	0.00	0.00		N
ATOM	22224	CA	LEU	B	718	3.549	55.089	153.715	0.00	0.00		C
ATOM	22225	C	LEU	B	718	3.638	53.604	153.841	0.00	0.00		C
ATOM	22226	O	LEU	B	718	3.926	53.114	154.961	0.00	0.00		O
ATOM	22227	CB	LEU	B	718	4.806	55.872	154.243	0.00	0.00		C
ATOM	22228	CG	LEU	B	718	5.812	56.372	153.156	0.00	0.00		C
ATOM	22229	CD1	LEU	B	718	5.236	57.562	152.342	0.00	0.00		C
ATOM	22230	CD2	LEU	B	718	7.159	56.801	153.801	0.00	0.00		C
ATOM	22231	HN	LEU	B	718	2.538	55.601	155.437	0.00	0.00		H
ATOM	22232	HCA	LEU	B	718	3.388	55.333	152.665	0.00	0.00		H
ATOM	22233	HCB	LEU	B	718	4.484	56.752	154.810	0.00	0.00		H
ATOM	22234	HCB	LEU	B	718	5.343	55.244	154.957	0.00	0.00		H
ATOM	22235	HCD1	LEU	B	718	4.354	57.254	151.788	0.00	0.00		H
ATOM	22236	HCD1	LEU	B	718	4.960	58.389	153.000	0.00	0.00		H
ATOM	22237	HCD1	LEU	B	718	5.968	57.929	151.623	0.00	0.00		H
ATOM	22238	HCD2	LEU	B	718	7.608	55.967	154.340	0.00	0.00		H

ATOM	22239	HCD2	LEU	B	718	7.867	57.122	153.034	0.00	0.00		H
ATOM	22240	HCD2	LEU	B	718	7.008	57.625	154.501	0.00	0.00		H
ATOM	22241	HCG	LEU	B	718	6.020	55.550	152.464	0.00	0.00		H
ATOM	22242	N	VAL	B	719	3.291	52.790	152.811	0.00	0.00		N
ATOM	22243	CA	VAL	B	719	3.007	51.374	152.904	0.00	0.00		C
ATOM	22244	C	VAL	B	719	3.711	50.538	151.887	0.00	0.00		C
ATOM	22245	O	VAL	B	719	3.788	50.892	150.680	0.00	0.00		O
ATOM	22246	CB	VAL	B	719	1.463	51.096	152.901	0.00	0.00		C
ATOM	22247	CG1	VAL	B	719	0.778	51.636	154.185	0.00	0.00		C
ATOM	22248	CG2	VAL	B	719	0.726	51.651	151.655	0.00	0.00		C
ATOM	22249	HN	VAL	B	719	3.165	53.211	151.962	0.00	0.00		H
ATOM	22250	HCA	VAL	B	719	3.365	51.019	153.877	0.00	0.00		H
ATOM	22251	HCB	VAL	B	719	1.312	50.009	152.909	0.00	0.00		H
ATOM	22252	HCG1	VAL	B	719	0.864	52.720	154.217	0.00	0.00		H
ATOM	22253	HCG1	VAL	B	719	-0.281	51.370	154.202	0.00	0.00		H
ATOM	22254	HCG1	VAL	B	719	1.246	51.222	155.080	0.00	0.00		H
ATOM	22255	HCG2	VAL	B	719	1.125	51.204	150.749	0.00	0.00		H
ATOM	22256	HCG2	VAL	B	719	-0.338	51.412	151.703	0.00	0.00		H
ATOM	22257	HCG2	VAL	B	719	0.837	52.735	151.588	0.00	0.00		H
ATOM	22258	N	PHE	B	720	4.200	49.351	152.327	0.00	0.00		N
ATOM	22259	CA	PHE	B	720	4.929	48.354	151.604	0.00	0.00		C
ATOM	22260	C	PHE	B	720	3.992	47.413	150.935	0.00	0.00		C
ATOM	22261	O	PHE	B	720	3.241	46.682	151.623	0.00	0.00		O
ATOM	22262	CB	PHE	B	720	5.873	47.599	152.586	0.00	0.00		C
ATOM	22263	CG	PHE	B	720	6.891	48.490	153.199	0.00	0.00		C
ATOM	22264	CD1	PHE	B	720	6.609	49.185	154.399	0.00	0.00		C
ATOM	22265	CD2	PHE	B	720	8.155	48.664	152.589	0.00	0.00		C
ATOM	22266	CE1	PHE	B	720	7.564	50.043	154.972	0.00	0.00		C
ATOM	22267	CE2	PHE	B	720	9.114	49.513	153.169	0.00	0.00		C
ATOM	22268	CZ	PHE	B	720	8.814	50.210	154.352	0.00	0.00		C
ATOM	22269	HN	PHE	B	720	4.022	49.144	153.256	0.00	0.00		H
ATOM	22270	HCA	PHE	B	720	5.557	48.840	150.856	0.00	0.00		H
ATOM	22271	HCB	PHE	B	720	5.286	47.120	153.376	0.00	0.00		H
ATOM	22272	HCB	PHE	B	720	6.378	46.789	152.053	0.00	0.00		H
ATOM	22273	HCD1	PHE	B	720	5.706	49.070	154.865	0.00	0.00		H
ATOM	22274	HCD2	PHE	B	720	8.385	48.172	151.723	0.00	0.00		H
ATOM	22275	HCE1	PHE	B	720	7.350	50.543	155.837	0.00	0.00		H
ATOM	22276	HCE2	PHE	B	720	10.028	49.624	152.727	0.00	0.00		H
ATOM	22277	HCZ	PHE	B	720	9.507	50.833	154.768	0.00	0.00		H
ATOM	22278	N	GLN	B	721	3.932	47.384	149.586	0.00	0.00		N
ATOM	22279	CA	GLN	B	721	3.000	46.642	148.779	0.00	0.00		C
ATOM	22280	C	GLN	B	721	3.689	45.590	148.012	0.00	0.00		C
ATOM	22281	O	GLN	B	721	4.567	45.984	147.250	0.00	0.00		O
ATOM	22282	CB	GLN	B	721	2.281	47.673	147.865	0.00	0.00		C
ATOM	22283	CG	GLN	B	721	1.418	48.701	148.661	0.00	0.00		C
ATOM	22284	CD	GLN	B	721	1.309	49.973	147.939	0.00	0.00		C
ATOM	22285	NE2	GLN	B	721	2.060	51.029	148.266	0.00	0.00		N
ATOM	22286	OE1	GLN	B	721	0.542	50.083	146.960	0.00	0.00		O
ATOM	22287	HN	GLN	B	721	4.520	47.991	149.137	0.00	0.00		H
ATOM	22288	HNE2	GLN	B	721	2.652	51.008	149.022	0.00	0.00		H
ATOM	22289	HNE2	GLN	B	721	1.983	51.792	147.699	0.00	0.00		H
ATOM	22290	HCA	GLN	B	721	2.227	46.207	149.413	0.00	0.00		H
ATOM	22291	HCB	GLN	B	721	3.045	48.200	147.282	0.00	0.00		H
ATOM	22292	HCB	GLN	B	721	1.633	47.149	147.155	0.00	0.00		H
ATOM	22293	HCG	GLN	B	721	0.417	48.299	148.833	0.00	0.00		H
ATOM	22294	HCG	GLN	B	721	1.852	48.906	149.640	0.00	0.00		H
ATOM	22295	N	PRO	B	722	3.437	44.278	148.086	0.00	0.00		N
ATOM	22296	CA	PRO	B	722	4.226	43.259	147.417	0.00	0.00		C
ATOM	22297	C	PRO	B	722	4.091	43.277	145.963	0.00	0.00		C
ATOM	22298	O	PRO	B	722	2.962	43.211	145.490	0.00	0.00		O
ATOM	22299	CB	PRO	B	722	3.771	41.932	148.062	0.00	0.00		C
ATOM	22300	CG	PRO	B	722	2.336	42.208	148.508	0.00	0.00		C
ATOM	22301	CD	PRO	B	722	2.368	43.703	148.857	0.00	0.00		C
ATOM	22302	HCA	PRO	B	722	5.275	43.387	147.676	0.00	0.00		H
ATOM	22303	HCB	PRO	B	722	3.834	41.078	147.382	0.00	0.00		H
ATOM	22304	HCB	PRO	B	722	4.373	41.731	148.949	0.00	0.00		H
ATOM	22305	HCD	PRO	B	722	1.401	44.151	148.610	0.00	0.00		H
ATOM	22306	HCD	PRO	B	722	2.570	43.830	149.926	0.00	0.00		H
ATOM	22307	HCG	PRO	B	722	1.652	42.026	147.679	0.00	0.00		H
ATOM	22308	HCG	PRO	B	722	2.043	41.590	149.361	0.00	0.00		H
ATOM	22309	N	VAL	B	723	5.160	43.356	145.179	0.00	0.00		N
ATOM	22310	CA	VAL	B	723	5.138	43.674	143.761	0.00	0.00		C
ATOM	22311	C	VAL	B	723	4.125	42.912	142.974	0.00	0.00		C
ATOM	22312	O	VAL	B	723	3.359	43.499	142.170	0.00	0.00		O
ATOM	22313	CB	VAL	B	723	6.543	43.596	143.062	0.00	0.00		C
ATOM	22314	CG1	VAL	B	723	7.522	44.697	143.547	0.00	0.00		C
ATOM	22315	CG2	VAL	B	723	7.226	42.212	143.172	0.00	0.00		C
ATOM	22316	HN	VAL	B	723	6.011	43.240	145.618	0.00	0.00		H
ATOM	22317	HCA	VAL	B	723	4.831	44.721	143.718	0.00	0.00		H
ATOM	22318	HCB	VAL	B	723	6.396	43.783	141.991	0.00	0.00		H



ATOM	22319	HCG1	VAL	B	723	7.694	44.630	144.622	0.00	0.00	H
ATOM	22320	HCG1	VAL	B	723	8.479	44.615	143.029	0.00	0.00	H
ATOM	22321	HCG1	VAL	B	723	7.119	45.679	143.317	0.00	0.00	H
ATOM	22322	HCG2	VAL	B	723	6.569	41.419	142.823	0.00	0.00	H
ATOM	22323	HCG2	VAL	B	723	8.129	42.185	142.560	0.00	0.00	H
ATOM	22324	HCG2	VAL	B	723	7.496	42.013	144.205	0.00	0.00	H
ATOM	22325	N	THR	B	724	3.980	41.586	143.177	0.00	0.00	N
ATOM	22326	CA	THR	B	724	3.057	40.724	142.496	0.00	0.00	C
ATOM	22327	C	THR	B	724	1.651	41.211	142.550	0.00	0.00	C
ATOM	22328	O	THR	B	724	0.952	41.180	141.505	0.00	0.00	O
ATOM	22329	CB	THR	B	724	3.146	39.273	143.058	0.00	0.00	C
ATOM	22330	CG2	THR	B	724	4.514	38.599	142.801	0.00	0.00	C
ATOM	22331	OG1	THR	B	724	2.914	39.271	144.466	0.00	0.00	O
ATOM	22332	HN	THR	B	724	4.549	41.186	143.852	0.00	0.00	H
ATOM	22333	HCA	THR	B	724	3.370	40.696	141.450	0.00	0.00	H
ATOM	22334	HCB	THR	B	724	2.376	38.656	142.582	0.00	0.00	H
ATOM	22335	HCG2	THR	B	724	4.739	38.586	141.733	0.00	0.00	H
ATOM	22336	HCG2	THR	B	724	5.309	39.134	143.322	0.00	0.00	H
ATOM	22337	HCG2	THR	B	724	4.498	37.569	143.162	0.00	0.00	H
ATOM	22338	HOG1	THR	B	724	2.949	38.326	144.730	0.00	0.00	H
ATOM	22339	N	GLU	B	725	1.159	41.789	143.672	0.00	0.00	N
ATOM	22340	CA	GLU	B	725	-0.204	42.201	143.859	0.00	0.00	C
ATOM	22341	C	GLU	B	725	-0.460	43.531	143.243	0.00	0.00	C
ATOM	22342	O	GLU	B	725	-1.624	44.001	143.308	0.00	0.00	O
ATOM	22343	CB	GLU	B	725	-0.562	42.155	145.374	0.00	0.00	C
ATOM	22344	CG	GLU	B	725	-0.525	40.713	145.964	0.00	0.00	C
ATOM	22345	CD	GLU	B	725	-1.009	40.625	147.352	0.00	0.00	C
ATOM	22346	OE1	GLU	B	725	-2.174	40.963	147.650	0.00	0.00	O
ATOM	22347	OE2	GLU	B	725	-0.290	40.173	148.267	0.00	0.00	O
ATOM	22348	HN	GLU	B	725	1.786	42.060	144.349	0.00	0.00	H
ATOM	22349	HCA	GLU	B	725	-0.870	41.498	143.346	0.00	0.00	H
ATOM	22350	HCB	GLU	B	725	0.122	42.802	145.930	0.00	0.00	H
ATOM	22351	HCB	GLU	B	725	-1.573	42.552	145.510	0.00	0.00	H
ATOM	22352	HCG	GLU	B	725	-1.156	40.056	145.362	0.00	0.00	H
ATOM	22353	HCG	GLU	B	725	0.497	40.329	145.917	0.00	0.00	H
ATOM	22354	N	LEU	B	726	0.515	44.179	142.553	0.00	0.00	N
ATOM	22355	CA	LEU	B	726	0.338	45.331	141.731	0.00	0.00	C
ATOM	22356	C	LEU	B	726	0.323	44.940	140.293	0.00	0.00	C
ATOM	22357	O	LEU	B	726	0.032	45.853	139.493	0.00	0.00	O
ATOM	22358	CB	LEU	B	726	1.462	46.369	142.040	0.00	0.00	C
ATOM	22359	CG	LEU	B	726	1.393	47.046	143.448	0.00	0.00	C
ATOM	22360	CD1	LEU	B	726	2.791	47.561	143.880	0.00	0.00	C
ATOM	22361	CD2	LEU	B	726	0.381	48.222	143.480	0.00	0.00	C
ATOM	22362	HN	LEU	B	726	1.411	43.829	142.547	0.00	0.00	H
ATOM	22363	HCA	LEU	B	726	-0.623	45.805	141.935	0.00	0.00	H
ATOM	22364	HCB	LEU	B	726	2.417	45.859	141.938	0.00	0.00	H
ATOM	22365	HCB	LEU	B	726	1.453	47.155	141.281	0.00	0.00	H
ATOM	22366	HCD1	LEU	B	726	3.214	48.209	143.112	0.00	0.00	H
ATOM	22367	HCD1	LEU	B	726	2.729	48.126	144.810	0.00	0.00	H
ATOM	22368	HCD1	LEU	B	726	3.469	46.723	144.041	0.00	0.00	H
ATOM	22369	HCD2	LEU	B	726	0.705	49.030	142.823	0.00	0.00	H
ATOM	22370	HCD2	LEU	B	726	-0.603	47.894	143.158	0.00	0.00	H
ATOM	22371	HCD2	LEU	B	726	0.289	48.615	144.495	0.00	0.00	H
ATOM	22372	HCG	LEU	B	726	1.078	46.303	144.189	0.00	0.00	H
ATOM	22373	N	GLN	B	727	0.530	43.690	139.786	0.00	0.00	N
ATOM	22374	CA	GLN	B	727	0.483	43.381	138.364	0.00	0.00	C
ATOM	22375	C	GLN	B	727	-0.823	43.715	137.789	0.00	0.00	C
ATOM	22376	O	GLN	B	727	-0.953	44.518	136.870	0.00	0.00	O
ATOM	22377	CB	GLN	B	727	0.812	41.877	138.129	0.00	0.00	C
ATOM	22378	CG	GLN	B	727	2.307	41.518	138.358	0.00	0.00	C
ATOM	22379	CD	GLN	B	727	2.517	40.063	138.450	0.00	0.00	C
ATOM	22380	NE2	GLN	B	727	2.038	39.397	139.502	0.00	0.00	N
ATOM	22381	OE1	GLN	B	727	3.134	39.421	137.574	0.00	0.00	O
ATOM	22382	HN	GLN	B	727	0.694	42.958	140.395	0.00	0.00	H
ATOM	22383	HNE2	GLN	B	727	1.613	39.905	140.191	0.00	0.00	H
ATOM	22384	HNE2	GLN	B	727	2.140	38.437	139.566	0.00	0.00	H
ATOM	22385	HCA	GLN	B	727	1.251	43.971	137.855	0.00	0.00	H
ATOM	22386	HCB	GLN	B	727	0.174	41.276	138.786	0.00	0.00	H
ATOM	22387	HCB	GLN	B	727	0.563	41.603	137.097	0.00	0.00	H
ATOM	22388	HCG	GLN	B	727	2.903	41.919	137.535	0.00	0.00	H
ATOM	22389	HCG	GLN	B	727	2.668	41.975	139.281	0.00	0.00	H
ATOM	22390	N	ASN	B	728	-1.880	43.210	138.389	0.00	0.00	N
ATOM	22391	CA	ASN	B	728	-3.273	43.484	138.205	0.00	0.00	C
ATOM	22392	C	ASN	B	728	-3.641	44.922	138.370	0.00	0.00	C
ATOM	22393	O	ASN	B	728	-4.823	45.254	138.117	0.00	0.00	O
ATOM	22394	CB	ASN	B	728	-4.038	42.546	139.208	0.00	0.00	C
ATOM	22395	CG	ASN	B	728	-3.431	42.511	140.561	0.00	0.00	C
ATOM	22396	ND2	ASN	B	728	-3.800	43.354	141.524	0.00	0.00	N
ATOM	22397	OD1	ASN	B	728	-2.429	41.796	140.797	0.00	0.00	O
ATOM	22398	HN	ASN	B	728	-1.725	42.627	139.131	0.00	0.00	H

ATOM	22399	HND2	ASN	B	728	-4.602	43.888	141.441	0.00	0.00		H
ATOM	22400	HND2	ASN	B	728	-3.189	43.487	142.249	0.00	0.00		H
ATOM	22401	HCA	ASN	B	728	-3.543	43.199	137.183	0.00	0.00		H
ATOM	22402	HCN	ASN	B	728	-5.087	42.841	139.286	0.00	0.00		H
ATOM	22403	HCN	ASN	B	728	-4.028	41.527	138.815	0.00	0.00		H
ATOM	22404	N	GLN	B	729	-2.745	45.865	138.754	0.00	0.00		N
ATOM	22405	CA	GLN	B	729	-2.961	47.276	138.869	0.00	0.00		C
ATOM	22406	C	GLN	B	729	-2.108	48.014	137.929	0.00	0.00		C
ATOM	22407	O	GLN	B	729	-2.101	49.232	138.053	0.00	0.00		O
ATOM	22408	CB	GLN	B	729	-2.735	47.704	140.359	0.00	0.00		C
ATOM	22409	CG	GLN	B	729	-3.525	46.846	141.391	0.00	0.00		C
ATOM	22410	CD	GLN	B	729	-3.423	47.315	142.785	0.00	0.00		C
ATOM	22411	NE2	GLN	B	729	-2.874	46.574	143.755	0.00	0.00		N
ATOM	22412	OE1	GLN	B	729	-3.876	48.431	143.116	0.00	0.00		O
ATOM	22413	HN	GLN	B	729	-1.846	45.617	138.968	0.00	0.00		H
ATOM	22414	HNE2	GLN	B	729	-2.490	45.718	143.574	0.00	0.00		H
ATOM	22415	HNE2	GLN	B	729	-2.856	46.928	144.656	0.00	0.00		H
ATOM	22416	HCA	GLN	B	729	-3.994	47.533	138.614	0.00	0.00		H
ATOM	22417	HCN	GLN	B	729	-1.669	47.656	140.596	0.00	0.00		H
ATOM	22418	HCN	GLN	B	729	-3.044	48.748	140.471	0.00	0.00		H
ATOM	22419	HCG	GLN	B	729	-4.582	46.829	141.120	0.00	0.00		H
ATOM	22420	HCG	GLN	B	729	-3.148	45.828	141.345	0.00	0.00		H
ATOM	22421	N	THR	B	730	-1.385	47.457	136.959	0.00	0.00		N
ATOM	22422	CA	THR	B	730	-0.654	48.182	135.928	0.00	0.00		C
ATOM	22423	C	THR	B	730	-1.156	47.930	134.555	0.00	0.00		C
ATOM	22424	O	THR	B	730	-1.796	46.892	134.267	0.00	0.00		O
ATOM	22425	CB	THR	B	730	0.911	48.005	135.958	0.00	0.00		C
ATOM	22426	CG2	THR	B	730	1.469	47.321	137.215	0.00	0.00		C
ATOM	22427	OG1	THR	B	730	1.419	47.249	134.857	0.00	0.00		O
ATOM	22428	HN	THR	B	730	-1.319	46.496	136.933	0.00	0.00		H
ATOM	22429	HCA	THR	B	730	-0.834	49.245	136.065	0.00	0.00		H
ATOM	22430	HCN	THR	B	730	1.373	48.997	135.887	0.00	0.00		H
ATOM	22431	HCG2	THR	B	730	1.146	46.284	137.239	0.00	0.00		H
ATOM	22432	HCG2	THR	B	730	2.554	47.337	137.190	0.00	0.00		H
ATOM	22433	HCG2	THR	B	730	1.128	47.833	138.115	0.00	0.00		H
ATOM	22434	HOG1	THR	B	730	2.389	47.193	134.993	0.00	0.00		H
ATOM	22435	N	ASP	B	731	-0.813	48.828	133.604	0.00	0.00		N
ATOM	22436	CA	ASP	B	731	-0.773	48.634	132.194	0.00	0.00		C
ATOM	22437	C	ASP	B	731	0.676	48.659	131.840	0.00	0.00		C
ATOM	22438	O	ASP	B	731	1.339	49.723	131.947	0.00	0.00		O
ATOM	22439	CB	ASP	B	731	-1.606	49.741	131.494	0.00	0.00		C
ATOM	22440	CG	ASP	B	731	-1.666	49.558	130.038	0.00	0.00		C
ATOM	22441	OD1	ASP	B	731	-0.621	49.606	129.354	0.00	0.00		O
ATOM	22442	OD2	ASP	B	731	-2.751	49.335	129.461	0.00	0.00		O
ATOM	22443	HN	ASP	B	731	-0.457	49.662	133.903	0.00	0.00		H
ATOM	22444	HCA	ASP	B	731	-1.199	47.661	131.925	0.00	0.00		H
ATOM	22445	HCN	ASP	B	731	-2.619	49.747	131.898	0.00	0.00		H
ATOM	22446	HCN	ASP	B	731	-1.170	50.720	131.691	0.00	0.00		H
ATOM	22447	N	PHE	B	732	1.262	47.506	131.446	0.00	0.00		N
ATOM	22448	CA	PHE	B	732	2.626	47.335	131.039	0.00	0.00		C
ATOM	22449	C	PHE	B	732	2.864	47.916	129.692	0.00	0.00		C
ATOM	22450	O	PHE	B	732	3.871	48.639	129.520	0.00	0.00		O
ATOM	22451	CB	PHE	B	732	2.977	45.818	131.072	0.00	0.00		C
ATOM	22452	CG	PHE	B	732	3.041	45.287	132.461	0.00	0.00		C
ATOM	22453	CD1	PHE	B	732	1.940	44.613	133.042	0.00	0.00		C
ATOM	22454	CD2	PHE	B	732	4.208	45.473	133.237	0.00	0.00		C
ATOM	22455	CE1	PHE	B	732	2.001	44.153	134.371	0.00	0.00		C
ATOM	22456	CE2	PHE	B	732	4.271	45.014	134.565	0.00	0.00		C
ATOM	22457	CZ	PHE	B	732	3.164	44.359	135.134	0.00	0.00		C
ATOM	22458	HN	PHE	B	732	0.695	46.722	131.428	0.00	0.00		H
ATOM	22459	HCA	PHE	B	732	3.277	47.852	131.752	0.00	0.00		H
ATOM	22460	HCN	PHE	B	732	2.244	45.258	130.484	0.00	0.00		H
ATOM	22461	HCN	PHE	B	732	3.947	45.651	130.592	0.00	0.00		H
ATOM	22462	HCD1	PHE	B	732	1.083	44.464	132.505	0.00	0.00		H
ATOM	22463	HCD2	PHE	B	732	5.022	45.946	132.838	0.00	0.00		H
ATOM	22464	HCE1	PHE	B	732	1.196	43.678	134.786	0.00	0.00		H
ATOM	22465	HCE2	PHE	B	732	5.121	45.160	135.114	0.00	0.00		H
ATOM	22466	HCZ	PHE	B	732	3.205	44.033	136.100	0.00	0.00		H
ATOM	22467	N	GLU	B	733	1.996	47.698	128.676	0.00	0.00		N
ATOM	22468	CA	GLU	B	733	2.093	48.204	127.329	0.00	0.00		C
ATOM	22469	C	GLU	B	733	2.459	49.648	127.286	0.00	0.00		C
ATOM	22470	O	GLU	B	733	3.442	50.023	126.604	0.00	0.00		O
ATOM	22471	CB	GLU	B	733	0.735	47.918	126.613	0.00	0.00		C
ATOM	22472	CG	GLU	B	733	0.624	48.366	125.125	0.00	0.00		C
ATOM	22473	CD	GLU	B	733	1.409	47.554	124.180	0.00	0.00		C
ATOM	22474	OE1	GLU	B	733	2.656	47.552	124.198	0.00	0.00		O
ATOM	22475	OE2	GLU	B	733	0.850	46.854	123.308	0.00	0.00		O
ATOM	22476	HN	GLU	B	733	1.230	47.142	128.883	0.00	0.00		H
ATOM	22477	HCA	GLU	B	733	2.874	47.628	126.824	0.00	0.00		H
ATOM	22478	HCN	GLU	B	733	0.525	46.845	126.667	0.00	0.00		H

ATOM	22479	HCB	GLU	B	733	-0.063	48.421	127.164	0.00	0.00		H
ATOM	22480	HCG	GLU	B	733	-0.428	48.308	124.835	0.00	0.00		H
ATOM	22481	HCG	GLU	B	733	0.925	49.409	125.016	0.00	0.00		H
ATOM	22482	N	HSE	B	734	1.758	50.529	128.033	0.00	0.00		N
ATOM	22483	CA	HSE	B	734	2.002	51.940	128.141	0.00	0.00		C
ATOM	22484	C	HSE	B	734	2.778	52.313	129.359	0.00	0.00		C
ATOM	22485	O	HSE	B	734	2.935	53.533	129.588	0.00	0.00		O
ATOM	22486	CB	HSE	B	734	0.608	52.637	128.079	0.00	0.00		C
ATOM	22487	CG	HSE	B	734	-0.098	52.359	126.813	0.00	0.00		C
ATOM	22488	CD2	HSE	B	734	-1.279	51.645	126.644	0.00	0.00		C
ATOM	22489	ND1	HSE	B	734	0.320	52.746	125.597	0.00	0.00		N
ATOM	22490	CE1	HSE	B	734	-0.570	52.294	124.700	0.00	0.00		C
ATOM	22491	NE2	HSE	B	734	-1.539	51.619	125.332	0.00	0.00		N
ATOM	22492	HN	HSE	B	734	1.002	50.185	128.514	0.00	0.00		H
ATOM	22493	HNE2	HSE	B	734	-2.299	51.190	124.910	0.00	0.00		H
ATOM	22494	HCA	HSE	B	734	2.591	52.296	127.289	0.00	0.00		H
ATOM	22495	HCB	HSE	B	734	-0.005	52.303	128.919	0.00	0.00		H
ATOM	22496	HCB	HSE	B	734	0.720	53.719	128.160	0.00	0.00		H
ATOM	22497	HCD2	HSE	B	734	-1.843	51.217	127.379	0.00	0.00		H
ATOM	22498	HCE1	HSE	B	734	-0.513	52.442	123.691	0.00	0.00		H
ATOM	22499	N	ARG	B	735	3.375	51.412	130.184	0.00	0.00		N
ATOM	22500	CA	ARG	B	735	4.125	51.696	131.385	0.00	0.00		C
ATOM	22501	C	ARG	B	735	3.457	52.648	132.333	0.00	0.00		C
ATOM	22502	O	ARG	B	735	4.051	53.697	132.686	0.00	0.00		O
ATOM	22503	CB	ARG	B	735	5.581	52.115	131.000	0.00	0.00		C
ATOM	22504	CG	ARG	B	735	6.444	51.021	130.310	0.00	0.00		C
ATOM	22505	CD	ARG	B	735	7.802	51.524	129.744	0.00	0.00		C
ATOM	22506	NE	ARG	B	735	8.654	52.150	130.711	0.00	0.00		N
ATOM	22507	CZ	ARG	B	735	8.670	53.438	131.060	0.00	0.00		C
ATOM	22508	NH1	ARG	B	735	7.849	54.305	130.490	0.00	0.00		N
ATOM	22509	NH2	ARG	B	735	9.542	53.848	131.971	0.00	0.00		N
ATOM	22510	HN	ARG	B	735	3.390	50.494	129.913	0.00	0.00		H
ATOM	22511	HNE	ARG	B	735	9.323	51.620	131.138	0.00	0.00		H
ATOM	22512	HNH1	ARG	B	735	7.233	53.982	129.828	0.00	0.00		H
ATOM	22513	HNH1	ARG	B	735	7.837	55.236	130.687	0.00	0.00		H
ATOM	22514	HNH2	ARG	B	735	10.179	53.234	132.344	0.00	0.00		H
ATOM	22515	HNH2	ARG	B	735	9.550	54.776	132.238	0.00	0.00		H
ATOM	22516	HCA	ARG	B	735	4.201	50.753	131.929	0.00	0.00		H
ATOM	22517	HCB	ARG	B	735	5.511	52.988	130.347	0.00	0.00		H
ATOM	22518	HCB	ARG	B	735	6.111	52.415	131.909	0.00	0.00		H
ATOM	22519	HCD	ARG	B	735	8.346	50.664	129.345	0.00	0.00		H
ATOM	22520	HCD	ARG	B	735	7.619	52.190	128.895	0.00	0.00		H
ATOM	22521	HCG	ARG	B	735	6.639	50.218	131.024	0.00	0.00		H
ATOM	22522	HCG	ARG	B	735	5.881	50.594	129.478	0.00	0.00		H
ATOM	22523	N	ILE	B	736	2.224	52.381	132.835	0.00	0.00		N
ATOM	22524	CA	ILE	B	736	1.478	53.248	133.737	0.00	0.00		C
ATOM	22525	C	ILE	B	736	0.647	52.497	134.734	0.00	0.00		C
ATOM	22526	O	ILE	B	736	0.218	51.367	134.395	0.00	0.00		O
ATOM	22527	CB	ILE	B	736	0.592	54.313	132.982	0.00	0.00		C
ATOM	22528	CG1	ILE	B	736	-0.421	53.655	131.992	0.00	0.00		C
ATOM	22529	CG2	ILE	B	736	1.447	55.420	132.303	0.00	0.00		C
ATOM	22530	CD1	ILE	B	736	-1.390	54.633	131.285	0.00	0.00		C
ATOM	22531	HN	ILE	B	736	1.840	51.545	132.555	0.00	0.00		H
ATOM	22532	HCA	ILE	B	736	2.212	53.790	134.336	0.00	0.00		H
ATOM	22533	HCB	ILE	B	736	-0.010	54.839	133.732	0.00	0.00		H
ATOM	22534	HCD1	ILE	B	736	-1.889	55.273	132.016	0.00	0.00		H
ATOM	22535	HCD1	ILE	B	736	-0.853	55.260	130.572	0.00	0.00		H
ATOM	22536	HCD1	ILE	B	736	-2.149	54.071	130.739	0.00	0.00		H
ATOM	22537	HCG1	ILE	B	736	0.128	53.094	131.233	0.00	0.00		H
ATOM	22538	HCG1	ILE	B	736	-1.038	52.949	132.550	0.00	0.00		H
ATOM	22539	HCG2	ILE	B	736	2.194	55.807	132.995	0.00	0.00		H
ATOM	22540	HCG2	ILE	B	736	1.957	55.033	131.423	0.00	0.00		H
ATOM	22541	HCG2	ILE	B	736	0.822	56.260	131.997	0.00	0.00		H
ATOM	22542	N	PRO	B	737	0.289	52.973	135.971	0.00	0.00		N
ATOM	22543	CA	PRO	B	737	-0.698	52.334	136.807	0.00	0.00		C
ATOM	22544	C	PRO	B	737	-2.083	52.496	136.357	0.00	0.00		C
ATOM	22545	O	PRO	B	737	-2.430	53.506	135.758	0.00	0.00		O
ATOM	22546	CB	PRO	B	737	-0.474	52.936	138.212	0.00	0.00		C
ATOM	22547	CG	PRO	B	737	0.156	54.305	137.943	0.00	0.00		C
ATOM	22548	CD	PRO	B	737	0.863	54.131	136.591	0.00	0.00		C
ATOM	22549	HCA	PRO	B	737	-0.464	51.273	136.880	0.00	0.00		H
ATOM	22550	HCB	PRO	B	737	-1.391	53.022	138.805	0.00	0.00		H
ATOM	22551	HCB	PRO	B	737	0.230	52.311	138.760	0.00	0.00		H
ATOM	22552	HCD	PRO	B	737	0.743	55.034	135.987	0.00	0.00		H
ATOM	22553	HCD	PRO	B	737	1.922	53.950	136.765	0.00	0.00		H
ATOM	22554	HCG	PRO	B	737	-0.625	55.056	137.859	0.00	0.00		H
ATOM	22555	HCG	PRO	B	737	0.850	54.599	138.736	0.00	0.00		H
ATOM	22556	N	LYS	B	738	-2.972	51.576	136.686	0.00	0.00		N
ATOM	22557	CA	LYS	B	738	-4.402	51.665	136.580	0.00	0.00		C
ATOM	22558	C	LYS	B	738	-4.916	52.349	137.799	0.00	0.00		C

ATOM	22559	O	LYS	B	738	-4.557	51.933	138.926	0.00	0.00	O
ATOM	22560	CB	LYS	B	738	-5.021	50.239	136.472	0.00	0.00	C
ATOM	22561	CG	LYS	B	738	-4.761	49.521	135.119	0.00	0.00	C
ATOM	22562	CD	LYS	B	738	-5.149	48.014	135.178	0.00	0.00	C
ATOM	22563	CE	LYS	B	738	-5.384	47.346	133.801	0.00	0.00	C
ATOM	22564	NZ	LYS	B	738	-4.252	47.519	132.889	0.00	0.00	N
ATOM	22565	HN	LYS	B	738	-2.644	50.804	137.138	0.00	0.00	H
ATOM	22566	HNZ	LYS	B	738	-3.397	47.294	133.361	0.00	0.00	H
ATOM	22567	HNZ	LYS	B	738	-4.362	46.908	132.079	0.00	0.00	H
ATOM	22568	HNZ	LYS	B	738	-4.212	48.487	132.574	0.00	0.00	H
ATOM	22569	HCA	LYS	B	738	-4.689	52.231	135.688	0.00	0.00	H
ATOM	22570	HCB	LYS	B	738	-4.641	49.624	137.292	0.00	0.00	H
ATOM	22571	HCB	LYS	B	738	-6.105	50.312	136.604	0.00	0.00	H
ATOM	22572	HCD	LYS	B	738	-4.365	47.467	135.710	0.00	0.00	H
ATOM	22573	HCD	LYS	B	738	-6.073	47.897	135.752	0.00	0.00	H
ATOM	22574	HCE	LYS	B	738	-5.549	46.276	133.950	0.00	0.00	H
ATOM	22575	HCE	LYS	B	738	-6.277	47.766	133.333	0.00	0.00	H
ATOM	22576	HCG	LYS	B	738	-5.345	50.026	134.344	0.00	0.00	H
ATOM	22577	HCG	LYS	B	738	-3.704	49.606	134.854	0.00	0.00	H
ATOM	22578	N	GLU	B	739	-5.771	53.390	137.679	0.00	0.00	N
ATOM	22579	CA	GLU	B	739	-6.312	54.207	138.732	0.00	0.00	C
ATOM	22580	C	GLU	B	739	-5.283	55.164	139.230	0.00	0.00	C
ATOM	22581	O	GLU	B	739	-4.346	54.760	139.958	0.00	0.00	O
ATOM	22582	CB	GLU	B	739	-7.031	53.432	139.885	0.00	0.00	C
ATOM	22583	CG	GLU	B	739	-8.037	52.335	139.428	0.00	0.00	C
ATOM	22584	CD	GLU	B	739	-9.120	52.826	138.561	0.00	0.00	C
ATOM	22585	OE1	GLU	B	739	-9.946	53.667	138.974	0.00	0.00	O
ATOM	22586	OE2	GLU	B	739	-9.250	52.414	137.389	0.00	0.00	O
ATOM	22587	HN	GLU	B	739	-6.024	53.629	136.775	0.00	0.00	H
ATOM	22588	HCA	GLU	B	739	-7.093	54.796	138.244	0.00	0.00	H
ATOM	22589	HCB	GLU	B	739	-6.285	52.954	140.527	0.00	0.00	H
ATOM	22590	HCB	GLU	B	739	-7.564	54.154	140.511	0.00	0.00	H
ATOM	22591	HCG	GLU	B	739	-7.494	51.541	138.912	0.00	0.00	H
ATOM	22592	HCG	GLU	B	739	-8.497	51.887	140.311	0.00	0.00	H
ATOM	22593	N	GLN	B	740	-5.349	56.466	138.865	0.00	0.00	N
ATOM	22594	CA	GLN	B	740	-4.428	57.511	139.217	0.00	0.00	C
ATOM	22595	C	GLN	B	740	-5.161	58.606	139.854	0.00	0.00	C
ATOM	22596	O	GLN	B	740	-5.960	59.263	139.194	0.00	0.00	O
ATOM	22597	CB	GLN	B	740	-3.694	57.989	137.930	0.00	0.00	C
ATOM	22598	CG	GLN	B	740	-2.468	57.138	137.507	0.00	0.00	C
ATOM	22599	CD	GLN	B	740	-1.824	57.670	136.288	0.00	0.00	C
ATOM	22600	NE2	GLN	B	740	-2.473	57.628	135.118	0.00	0.00	N
ATOM	22601	OE1	GLN	B	740	-0.697	58.212	136.338	0.00	0.00	O
ATOM	22602	HN	GLN	B	740	-6.092	56.719	138.297	0.00	0.00	H
ATOM	22603	HNE2	GLN	B	740	-3.323	57.174	135.070	0.00	0.00	H
ATOM	22604	HNE2	GLN	B	740	-2.139	58.073	134.334	0.00	0.00	H
ATOM	22605	HCA	GLN	B	740	-3.669	57.147	139.918	0.00	0.00	H
ATOM	22606	HCB	GLN	B	740	-4.402	58.013	137.103	0.00	0.00	H
ATOM	22607	HCB	GLN	B	740	-3.353	59.010	138.088	0.00	0.00	H
ATOM	22608	HCG	GLN	B	740	-1.743	57.143	138.325	0.00	0.00	H
ATOM	22609	HCG	GLN	B	740	-2.776	56.106	137.324	0.00	0.00	H
ATOM	22610	N	TRP	B	741	-4.933	58.896	141.125	0.00	0.00	N
ATOM	22611	CA	TRP	B	741	-5.587	59.897	141.929	0.00	0.00	C
ATOM	22612	C	TRP	B	741	-5.786	61.201	141.238	0.00	0.00	C
ATOM	22613	O	TRP	B	741	-6.922	61.737	141.197	0.00	0.00	O
ATOM	22614	CB	TRP	B	741	-4.814	60.057	143.275	0.00	0.00	C
ATOM	22615	CG	TRP	B	741	-3.467	60.678	143.178	0.00	0.00	C
ATOM	22616	CD1	TRP	B	741	-2.243	60.019	143.024	0.00	0.00	C
ATOM	22617	CD2	TRP	B	741	-3.145	62.034	143.257	0.00	0.00	C
ATOM	22618	CE2	TRP	B	741	-1.757	62.138	143.165	0.00	0.00	C
ATOM	22619	CE3	TRP	B	741	-3.945	63.183	143.411	0.00	0.00	C
ATOM	22620	NE1	TRP	B	741	-1.233	60.913	143.044	0.00	0.00	N
ATOM	22621	CZ2	TRP	B	741	-1.113	63.382	143.233	0.00	0.00	C
ATOM	22622	CZ3	TRP	B	741	-3.312	64.443	143.454	0.00	0.00	C
ATOM	22623	CH2	TRP	B	741	-1.904	64.541	143.374	0.00	0.00	C
ATOM	22624	HN	TRP	B	741	-4.277	58.344	141.577	0.00	0.00	H
ATOM	22625	HNE1	TRP	B	741	-0.286	60.718	143.029	0.00	0.00	H
ATOM	22626	HCA	TRP	B	741	-6.576	59.498	142.178	0.00	0.00	H
ATOM	22627	HCB	TRP	B	741	-5.421	60.654	143.961	0.00	0.00	H
ATOM	22628	HCB	TRP	B	741	-4.710	59.075	143.745	0.00	0.00	H
ATOM	22629	HCD1	TRP	B	741	-2.131	59.007	142.936	0.00	0.00	H
ATOM	22630	HCE3	TRP	B	741	-4.962	63.112	143.487	0.00	0.00	H
ATOM	22631	HCH2	TRP	B	741	-1.456	65.457	143.424	0.00	0.00	H
ATOM	22632	HCZ2	TRP	B	741	-0.095	63.438	143.186	0.00	0.00	H
ATOM	22633	HCZ3	TRP	B	741	-3.877	65.288	143.549	0.00	0.00	H
ATOM	22634	N	TRP	B	742	-4.730	61.759	140.602	0.00	0.00	N
ATOM	22635	CA	TRP	B	742	-4.727	63.016	139.926	0.00	0.00	C
ATOM	22636	C	TRP	B	742	-5.757	63.128	138.857	0.00	0.00	C
ATOM	22637	O	TRP	B	742	-6.108	64.290	138.528	0.00	0.00	O
ATOM	22638	CB	TRP	B	742	-3.277	63.353	139.461	0.00	0.00	C

ATOM	22639	CG	TRP	B	742	-2.741	62.444	138.421	0.00	0.00	C
ATOM	22640	CD1	TRP	B	742	-1.881	61.352	138.608	0.00	0.00	C
ATOM	22641	CD2	TRP	B	742	-3.012	62.482	137.055	0.00	0.00	C
ATOM	22642	CE2	TRP	B	742	-2.336	61.412	136.481	0.00	0.00	C
ATOM	22643	CE3	TRP	B	742	-3.795	63.337	136.259	0.00	0.00	C
ATOM	22644	NE1	TRP	B	742	-1.660	60.754	137.421	0.00	0.00	N
ATOM	22645	CZ2	TRP	B	742	-2.440	61.124	135.117	0.00	0.00	C
ATOM	22646	CZ3	TRP	B	742	-3.940	63.037	134.888	0.00	0.00	C
ATOM	22647	CH2	TRP	B	742	-3.282	61.924	134.322	0.00	0.00	C
ATOM	22648	HN	TRP	B	742	-3.895	61.269	140.636	0.00	0.00	H
ATOM	22649	HNE1	TRP	B	742	-1.170	59.946	137.228	0.00	0.00	H
ATOM	22650	HCA	TRP	B	742	-4.988	63.763	140.683	0.00	0.00	H
ATOM	22651	HCB	TRP	B	742	-3.240	64.379	139.084	0.00	0.00	H
ATOM	22652	HCB	TRP	B	742	-2.613	63.321	140.330	0.00	0.00	H
ATOM	22653	HCD1	TRP	B	742	-1.496	61.043	139.504	0.00	0.00	H
ATOM	22654	HCE3	TRP	B	742	-4.258	64.149	136.662	0.00	0.00	H
ATOM	22655	HCH2	TRP	B	742	-3.415	61.695	133.336	0.00	0.00	H
ATOM	22656	HCZ2	TRP	B	742	-1.920	60.345	134.726	0.00	0.00	H
ATOM	22657	HCZ3	TRP	B	742	-4.524	63.625	134.301	0.00	0.00	H
ATOM	22658	N	LEU	B	743	-6.400	62.058	138.302	0.00	0.00	N
ATOM	22659	CA	LEU	B	743	-7.486	62.219	137.368	0.00	0.00	C
ATOM	22660	C	LEU	B	743	-8.625	62.957	137.986	0.00	0.00	C
ATOM	22661	O	LEU	B	743	-9.378	63.634	137.243	0.00	0.00	O
ATOM	22662	CB	LEU	B	743	-7.974	60.900	136.680	0.00	0.00	C
ATOM	22663	CG	LEU	B	743	-7.291	60.577	135.307	0.00	0.00	C
ATOM	22664	CD1	LEU	B	743	-5.944	59.845	135.501	0.00	0.00	C
ATOM	22665	CD2	LEU	B	743	-8.217	59.741	134.381	0.00	0.00	C
ATOM	22666	HN	LEU	B	743	-6.181	61.166	138.592	0.00	0.00	H
ATOM	22667	HCA	LEU	B	743	-7.084	62.867	136.591	0.00	0.00	H
ATOM	22668	HCB	LEU	B	743	-7.858	60.060	137.369	0.00	0.00	H
ATOM	22669	HCB	LEU	B	743	-9.050	60.984	136.493	0.00	0.00	H
ATOM	22670	HCD1	LEU	B	743	-5.308	60.387	136.203	0.00	0.00	H
ATOM	22671	HCD1	LEU	B	743	-6.127	58.843	135.887	0.00	0.00	H
ATOM	22672	HCD1	LEU	B	743	-5.411	59.760	134.553	0.00	0.00	H
ATOM	22673	HCD2	LEU	B	743	-9.139	60.287	134.172	0.00	0.00	H
ATOM	22674	HCD2	LEU	B	743	-7.727	59.543	133.427	0.00	0.00	H
ATOM	22675	HCD2	LEU	B	743	-8.474	58.788	134.849	0.00	0.00	H
ATOM	22676	HCG	LEU	B	743	-7.089	61.510	134.770	0.00	0.00	H
ATOM	22677	N	LYS	B	744	-8.810	62.995	139.330	0.00	0.00	N
ATOM	22678	CA	LYS	B	744	-9.842	63.756	139.976	0.00	0.00	C
ATOM	22679	C	LYS	B	744	-9.675	65.229	139.780	0.00	0.00	C
ATOM	22680	O	LYS	B	744	-10.624	65.979	140.111	0.00	0.00	O
ATOM	22681	CB	LYS	B	744	-9.912	63.309	141.468	0.00	0.00	C
ATOM	22682	CG	LYS	B	744	-11.232	63.696	142.193	0.00	0.00	C
ATOM	22683	CD	LYS	B	744	-11.386	62.990	143.566	0.00	0.00	C
ATOM	22684	CE	LYS	B	744	-12.720	63.339	144.266	0.00	0.00	C
ATOM	22685	NZ	LYS	B	744	-12.839	62.611	145.532	0.00	0.00	N
ATOM	22686	HN	LYS	B	744	-8.186	62.531	139.897	0.00	0.00	H
ATOM	22687	HNZ	LYS	B	744	-12.068	62.865	146.149	0.00	0.00	H
ATOM	22688	HNZ	LYS	B	744	-13.723	62.846	145.982	0.00	0.00	H
ATOM	22689	HNZ	LYS	B	744	-12.810	61.607	145.354	0.00	0.00	H
ATOM	22690	HCA	LYS	B	744	-10.788	63.475	139.501	0.00	0.00	H
ATOM	22691	HCB	LYS	B	744	-9.824	62.218	141.501	0.00	0.00	H
ATOM	22692	HCB	LYS	B	744	-9.059	63.723	142.014	0.00	0.00	H
ATOM	22693	HCD	LYS	B	744	-11.342	61.907	143.420	0.00	0.00	H
ATOM	22694	HCD	LYS	B	744	-10.554	63.280	144.215	0.00	0.00	H
ATOM	22695	HCE	LYS	B	744	-12.769	64.412	144.469	0.00	0.00	H
ATOM	22696	HCE	LYS	B	744	-13.563	63.065	143.627	0.00	0.00	H
ATOM	22697	HCG	LYS	B	744	-11.258	64.779	142.344	0.00	0.00	H
ATOM	22698	HCG	LYS	B	744	-12.083	63.422	141.561	0.00	0.00	H
ATOM	22699	N	LEU	B	745	-8.571	65.763	139.190	0.00	0.00	N
ATOM	22700	CA	LEU	B	745	-8.383	67.149	138.854	0.00	0.00	C
ATOM	22701	C	LEU	B	745	-8.754	67.469	137.440	0.00	0.00	C
ATOM	22702	O	LEU	B	745	-8.798	68.675	137.074	0.00	0.00	O
ATOM	22703	CB	LEU	B	745	-6.906	67.535	139.169	0.00	0.00	C
ATOM	22704	CG	LEU	B	745	-6.375	67.115	140.581	0.00	0.00	C
ATOM	22705	CD1	LEU	B	745	-4.869	67.452	140.715	0.00	0.00	C
ATOM	22706	CD2	LEU	B	745	-7.174	67.752	141.745	0.00	0.00	C
ATOM	22707	HN	LEU	B	745	-7.833	65.187	138.973	0.00	0.00	H
ATOM	22708	HCA	LEU	B	745	-9.027	67.761	139.486	0.00	0.00	H
ATOM	22709	HCB	LEU	B	745	-6.267	67.070	138.412	0.00	0.00	H
ATOM	22710	HCB	LEU	B	745	-6.797	68.618	139.061	0.00	0.00	H
ATOM	22711	HCD1	LEU	B	745	-4.700	68.527	140.630	0.00	0.00	H
ATOM	22712	HCD1	LEU	B	745	-4.481	67.114	141.678	0.00	0.00	H
ATOM	22713	HCD1	LEU	B	745	-4.307	66.946	139.929	0.00	0.00	H
ATOM	22714	HCD2	LEU	B	745	-8.220	67.445	141.716	0.00	0.00	H
ATOM	22715	HCD2	LEU	B	745	-6.765	67.426	142.702	0.00	0.00	H
ATOM	22716	HCD2	LEU	B	745	-7.123	68.839	141.689	0.00	0.00	H
ATOM	22717	HCG	LEU	B	745	-6.460	66.029	140.682	0.00	0.00	H
ATOM	22718	N	ARG	B	746	-9.101	66.496	136.554	0.00	0.00	N

ATOM	22719	CA	ARG	B	746	-9.505	66.731	135.195	0.00	0.00	C
ATOM	22720	C	ARG	B	746	-10.737	67.570	135.044	0.00	0.00	C
ATOM	22721	O	ARG	B	746	-10.719	68.353	134.061	0.00	0.00	O
ATOM	22722	CB	ARG	B	746	-9.676	65.392	134.423	0.00	0.00	C
ATOM	22723	CG	ARG	B	746	-8.383	64.551	134.235	0.00	0.00	C
ATOM	22724	CD	ARG	B	746	-7.241	65.186	133.412	0.00	0.00	C
ATOM	22725	NE	ARG	B	746	-7.662	65.539	132.107	0.00	0.00	N
ATOM	22726	CZ	ARG	B	746	-6.913	66.199	131.229	0.00	0.00	C
ATOM	22727	NH1	ARG	B	746	-5.649	66.587	131.363	0.00	0.00	N
ATOM	22728	NH2	ARG	B	746	-7.423	66.463	130.042	0.00	0.00	N
ATOM	22729	HN	ARG	B	746	-9.124	65.582	136.852	0.00	0.00	H
ATOM	22730	HNE	ARG	B	746	-8.522	65.251	131.800	0.00	0.00	H
ATOM	22731	HNH1	ARG	B	746	-5.089	66.394	132.123	0.00	0.00	H
ATOM	22732	HNH1	ARG	B	746	-5.300	67.023	130.586	0.00	0.00	H
ATOM	22733	HNH2	ARG	B	746	-8.302	66.171	129.799	0.00	0.00	H
ATOM	22734	HNH2	ARG	B	746	-6.839	66.910	129.434	0.00	0.00	H
ATOM	22735	HCA	ARG	B	746	-8.686	67.281	134.721	0.00	0.00	H
ATOM	22736	HCB	ARG	B	746	-10.410	64.773	134.945	0.00	0.00	H
ATOM	22737	HCB	ARG	B	746	-10.086	65.601	133.437	0.00	0.00	H
ATOM	22738	HCD	ARG	B	746	-6.862	66.065	133.933	0.00	0.00	H
ATOM	22739	HCD	ARG	B	746	-6.430	64.462	133.328	0.00	0.00	H
ATOM	22740	HCG	ARG	B	746	-7.976	64.340	135.217	0.00	0.00	H
ATOM	22741	HCG	ARG	B	746	-8.653	63.595	133.775	0.00	0.00	H
ATOM	22742	N	PRO	B	747	-11.866	67.529	135.824	0.00	0.00	N
ATOM	22743	CA	PRO	B	747	-12.926	68.499	135.694	0.00	0.00	C
ATOM	22744	C	PRO	B	747	-12.518	69.841	136.110	0.00	0.00	C
ATOM	22745	O	PRO	B	747	-12.780	70.783	135.372	0.00	0.00	O
ATOM	22746	CB	PRO	B	747	-14.098	67.933	136.532	0.00	0.00	C
ATOM	22747	CG	PRO	B	747	-13.417	67.018	137.554	0.00	0.00	C
ATOM	22748	CD	PRO	B	747	-12.159	66.532	136.817	0.00	0.00	C
ATOM	22749	HCA	PRO	B	747	-13.260	68.533	134.650	0.00	0.00	H
ATOM	22750	HCB	PRO	B	747	-14.697	68.710	137.019	0.00	0.00	H
ATOM	22751	HCB	PRO	B	747	-14.760	67.336	135.895	0.00	0.00	H
ATOM	22752	HCD	PRO	B	747	-11.366	66.402	137.548	0.00	0.00	H
ATOM	22753	HCD	PRO	B	747	-12.357	65.574	136.329	0.00	0.00	H
ATOM	22754	HCG	PRO	B	747	-13.141	67.590	138.445	0.00	0.00	H
ATOM	22755	HCG	PRO	B	747	-14.062	66.186	137.851	0.00	0.00	H
ATOM	22756	N	ILE	B	748	-11.873	70.065	137.247	0.00	0.00	N
ATOM	22757	CA	ILE	B	748	-11.518	71.373	137.748	0.00	0.00	C
ATOM	22758	C	ILE	B	748	-10.640	72.103	136.791	0.00	0.00	C
ATOM	22759	O	ILE	B	748	-10.922	73.289	136.484	0.00	0.00	O
ATOM	22760	CB	ILE	B	748	-11.027	71.420	139.241	0.00	0.00	C
ATOM	22761	CG1	ILE	B	748	-9.526	71.049	139.460	0.00	0.00	C
ATOM	22762	CG2	ILE	B	748	-11.972	70.584	140.155	0.00	0.00	C
ATOM	22763	CD1	ILE	B	748	-8.985	71.310	140.887	0.00	0.00	C
ATOM	22764	HN	ILE	B	748	-11.633	69.293	137.781	0.00	0.00	H
ATOM	22765	HCA	ILE	B	748	-12.468	71.910	137.770	0.00	0.00	H
ATOM	22766	HCB	ILE	B	748	-11.126	72.465	139.557	0.00	0.00	H
ATOM	22767	HCD1	ILE	B	748	-9.145	72.352	141.170	0.00	0.00	H
ATOM	22768	HCD1	ILE	B	748	-9.467	70.660	141.618	0.00	0.00	H
ATOM	22769	HCD1	ILE	B	748	-7.916	71.109	140.918	0.00	0.00	H
ATOM	22770	HCG1	ILE	B	748	-9.381	70.002	139.216	0.00	0.00	H
ATOM	22771	HCG1	ILE	B	748	-8.899	71.634	138.783	0.00	0.00	H
ATOM	22772	HCG2	ILE	B	748	-13.017	70.841	139.966	0.00	0.00	H
ATOM	22773	HCG2	ILE	B	748	-11.838	69.516	139.979	0.00	0.00	H
ATOM	22774	HCG2	ILE	B	748	-11.771	70.784	141.207	0.00	0.00	H
ATOM	22775	N	LEU	B	749	-9.622	71.453	136.170	0.00	0.00	N
ATOM	22776	CA	LEU	B	749	-8.826	72.021	135.111	0.00	0.00	C
ATOM	22777	C	LEU	B	749	-9.607	72.520	133.938	0.00	0.00	C
ATOM	22778	O	LEU	B	749	-9.076	73.367	133.182	0.00	0.00	O
ATOM	22779	CB	LEU	B	749	-7.758	70.965	134.697	0.00	0.00	C
ATOM	22780	CG	LEU	B	749	-6.759	71.377	133.566	0.00	0.00	C
ATOM	22781	CD1	LEU	B	749	-5.993	72.688	133.877	0.00	0.00	C
ATOM	22782	CD2	LEU	B	749	-5.738	70.242	133.320	0.00	0.00	C
ATOM	22783	HN	LEU	B	749	-9.412	70.555	136.457	0.00	0.00	H
ATOM	22784	HCA	LEU	B	749	-8.309	72.880	135.550	0.00	0.00	H
ATOM	22785	HCB	LEU	B	749	-7.180	70.704	135.590	0.00	0.00	H
ATOM	22786	HCB	LEU	B	749	-8.282	70.061	134.375	0.00	0.00	H
ATOM	22787	HCD1	LEU	B	749	-6.658	73.549	133.916	0.00	0.00	H
ATOM	22788	HCD1	LEU	B	749	-5.501	72.592	134.839	0.00	0.00	H
ATOM	22789	HCD1	LEU	B	749	-5.244	72.894	133.110	0.00	0.00	H
ATOM	22790	HCD2	LEU	B	749	-6.247	69.325	133.018	0.00	0.00	H
ATOM	22791	HCD2	LEU	B	749	-5.049	70.532	132.529	0.00	0.00	H
ATOM	22792	HCD2	LEU	B	749	-5.158	70.052	134.225	0.00	0.00	H
ATOM	22793	HCG	LEU	B	749	-7.313	71.519	132.633	0.00	0.00	H
ATOM	22794	N	LYS	B	750	-10.886	72.149	133.693	0.00	0.00	N
ATOM	22795	CA	LYS	B	750	-11.703	72.624	132.615	0.00	0.00	C
ATOM	22796	C	LYS	B	750	-12.594	73.672	133.163	0.00	0.00	C
ATOM	22797	O	LYS	B	750	-12.646	74.774	132.573	0.00	0.00	O
ATOM	22798	CB	LYS	B	750	-12.506	71.462	131.969	0.00	0.00	C

ATOM	22799	CG	LYS	B	750	-11.590	70.375	131.348	0.00	0.00	C
ATOM	22800	CD	LYS	B	750	-12.396	69.269	130.617	0.00	0.00	C
ATOM	22801	CE	LYS	B	750	-11.571	67.984	130.365	0.00	0.00	C
ATOM	22802	NZ	LYS	B	750	-11.571	67.112	131.546	0.00	0.00	N
ATOM	22803	HN	LYS	B	750	-11.343	71.587	134.316	0.00	0.00	H
ATOM	22804	HNZ	LYS	B	750	-12.529	66.825	131.741	0.00	0.00	H
ATOM	22805	HNZ	LYS	B	750	-11.036	66.284	131.347	0.00	0.00	H
ATOM	22806	HNZ	LYS	B	750	-11.211	67.579	132.364	0.00	0.00	H
ATOM	22807	HCA	LYS	B	750	-11.093	73.068	131.819	0.00	0.00	H
ATOM	22808	HCB	LYS	B	750	-13.157	71.001	132.717	0.00	0.00	H
ATOM	22809	HCB	LYS	B	750	-13.141	71.871	131.179	0.00	0.00	H
ATOM	22810	HCD	LYS	B	750	-13.292	69.010	131.187	0.00	0.00	H
ATOM	22811	HCD	LYS	B	750	-12.727	69.669	129.654	0.00	0.00	H
ATOM	22812	HCE	LYS	B	750	-12.021	67.426	129.541	0.00	0.00	H
ATOM	22813	HCE	LYS	B	750	-10.543	68.229	130.088	0.00	0.00	H
ATOM	22814	HCG	LYS	B	750	-10.902	70.841	130.635	0.00	0.00	H
ATOM	22815	HCG	LYS	B	750	-10.986	69.935	132.141	0.00	0.00	H
ATOM	22816	N	ILE	B	751	-13.311	73.487	134.301	0.00	0.00	N
ATOM	22817	CA	ILE	B	751	-14.188	74.495	134.856	0.00	0.00	C
ATOM	22818	C	ILE	B	751	-13.463	75.775	135.124	0.00	0.00	C
ATOM	22819	O	ILE	B	751	-13.989	76.858	134.777	0.00	0.00	O
ATOM	22820	CB	ILE	B	751	-15.085	74.024	136.055	0.00	0.00	C
ATOM	22821	CG1	ILE	B	751	-14.397	74.070	137.459	0.00	0.00	C
ATOM	22822	CG2	ILE	B	751	-15.743	72.641	135.783	0.00	0.00	C
ATOM	22823	CD1	ILE	B	751	-14.666	75.373	138.247	0.00	0.00	C
ATOM	22824	HN	ILE	B	751	-13.208	72.633	134.731	0.00	0.00	H
ATOM	22825	HCA	ILE	B	751	-14.900	74.710	134.052	0.00	0.00	H
ATOM	22826	HCB	ILE	B	751	-15.925	74.725	136.090	0.00	0.00	H
ATOM	22827	HCD1	ILE	B	751	-14.430	76.258	137.656	0.00	0.00	H
ATOM	22828	HCD1	ILE	B	751	-15.715	75.420	138.546	0.00	0.00	H
ATOM	22829	HCD1	ILE	B	751	-14.045	75.386	139.140	0.00	0.00	H
ATOM	22830	HCG1	ILE	B	751	-14.734	73.239	138.087	0.00	0.00	H
ATOM	22831	HCG1	ILE	B	751	-13.322	73.965	137.340	0.00	0.00	H
ATOM	22832	HCG2	ILE	B	751	-16.214	72.623	134.798	0.00	0.00	H
ATOM	22833	HCG2	ILE	B	751	-15.007	71.843	135.832	0.00	0.00	H
ATOM	22834	HCG2	ILE	B	751	-16.512	72.433	136.530	0.00	0.00	H
ATOM	22835	N	LEU	B	752	-12.210	75.798	135.649	0.00	0.00	N
ATOM	22836	CA	LEU	B	752	-11.428	76.995	135.855	0.00	0.00	C
ATOM	22837	C	LEU	B	752	-11.085	77.736	134.600	0.00	0.00	C
ATOM	22838	O	LEU	B	752	-10.596	78.891	134.699	0.00	0.00	O
ATOM	22839	CB	LEU	B	752	-10.146	76.629	136.663	0.00	0.00	C
ATOM	22840	CG	LEU	B	752	-10.388	76.092	138.113	0.00	0.00	C
ATOM	22841	CD1	LEU	B	752	-9.087	75.474	138.685	0.00	0.00	C
ATOM	22842	CD2	LEU	B	752	-10.919	77.182	139.078	0.00	0.00	C
ATOM	22843	HN	LEU	B	752	-11.810	74.959	135.895	0.00	0.00	H
ATOM	22844	HCA	LEU	B	752	-12.029	77.682	136.454	0.00	0.00	H
ATOM	22845	HCB	LEU	B	752	-9.598	75.877	136.086	0.00	0.00	H
ATOM	22846	HCB	LEU	B	752	-9.497	77.507	136.735	0.00	0.00	H
ATOM	22847	HCD1	LEU	B	752	-8.297	76.224	138.753	0.00	0.00	H
ATOM	22848	HCD1	LEU	B	752	-9.262	75.057	139.679	0.00	0.00	H
ATOM	22849	HCD1	LEU	B	752	-8.750	74.663	138.038	0.00	0.00	H
ATOM	22850	HCD2	LEU	B	752	-11.934	77.467	138.802	0.00	0.00	H
ATOM	22851	HCD2	LEU	B	752	-10.952	76.804	140.102	0.00	0.00	H
ATOM	22852	HCD2	LEU	B	752	-10.279	78.065	139.052	0.00	0.00	H
ATOM	22853	HCG	LEU	B	752	-11.135	75.295	138.083	0.00	0.00	H
ATOM	22854	N	ALA	B	753	-11.337	77.207	133.377	0.00	0.00	N
ATOM	22855	CA	ALA	B	753	-11.161	77.802	132.086	0.00	0.00	C
ATOM	22856	C	ALA	B	753	-12.476	77.947	131.380	0.00	0.00	C
ATOM	22857	O	ALA	B	753	-12.493	78.288	130.171	0.00	0.00	O
ATOM	22858	CB	ALA	B	753	-10.147	76.888	131.346	0.00	0.00	C
ATOM	22859	HN	ALA	B	753	-11.728	76.334	133.319	0.00	0.00	H
ATOM	22860	HCA	ALA	B	753	-10.726	78.803	132.163	0.00	0.00	H
ATOM	22861	HCB	ALA	B	753	-9.178	76.918	131.851	0.00	0.00	H
ATOM	22862	HCB	ALA	B	753	-10.486	75.851	131.331	0.00	0.00	H
ATOM	22863	HCB	ALA	B	753	-9.999	77.206	130.315	0.00	0.00	H
ATOM	22864	N	LYS	B	754	-13.646	77.777	132.048	0.00	0.00	N
ATOM	22865	CA	LYS	B	754	-14.995	77.988	131.615	0.00	0.00	C
ATOM	22866	C	LYS	B	754	-15.562	76.691	131.163	0.00	0.00	C
ATOM	22867	O	LYS	B	754	-16.043	75.946	132.050	0.00	0.00	O
ATOM	22868	CB	LYS	B	754	-15.240	79.241	130.717	0.00	0.00	C
ATOM	22869	CG	LYS	B	754	-16.732	79.677	130.591	0.00	0.00	C
ATOM	22870	CD	LYS	B	754	-17.206	80.648	131.713	0.00	0.00	C
ATOM	22871	CE	LYS	B	754	-17.035	82.157	131.396	0.00	0.00	C
ATOM	22872	NZ	LYS	B	754	-15.700	82.523	130.904	0.00	0.00	N
ATOM	22873	HN	LYS	B	754	-13.604	77.462	132.954	0.00	0.00	H
ATOM	22874	HNZ	LYS	B	754	-15.471	81.956	130.088	0.00	0.00	H
ATOM	22875	HNZ	LYS	B	754	-15.705	83.505	130.629	0.00	0.00	H
ATOM	22876	HNZ	LYS	B	754	-14.985	82.396	131.605	0.00	0.00	H
ATOM	22877	HCA	LYS	B	754	-15.517	78.226	132.547	0.00	0.00	H
ATOM	22878	HCB	LYS	B	754	-14.647	80.066	131.113	0.00	0.00	H

ATOM	22879	HCB	LYS	B	754	-14.855	79.047	129.725	0.00	0.00	H
ATOM	22880	HCD	LYS	B	754	-18.272	80.475	131.889	0.00	0.00	H
ATOM	22881	HCD	LYS	B	754	-16.700	80.415	132.649	0.00	0.00	H
ATOM	22882	HCE	LYS	B	754	-17.760	82.441	130.629	0.00	0.00	H
ATOM	22883	HCE	LYS	B	754	-17.252	82.743	132.293	0.00	0.00	H
ATOM	22884	HCG	LYS	B	754	-16.890	80.152	129.618	0.00	0.00	H
ATOM	22885	HCG	LYS	B	754	-17.366	78.785	130.601	0.00	0.00	H
ATOM	22886	N	TYR	B	755	-15.516	76.266	129.874	0.00	0.00	N
ATOM	22887	CA	TYR	B	755	-16.002	74.990	129.394	0.00	0.00	C
ATOM	22888	C	TYR	B	755	-17.375	74.562	129.825	0.00	0.00	C
ATOM	22889	O	TYR	B	755	-18.142	75.347	130.431	0.00	0.00	O
ATOM	22890	CB	TYR	B	755	-14.881	73.932	129.686	0.00	0.00	C
ATOM	22891	CG	TYR	B	755	-13.763	74.028	128.711	0.00	0.00	C
ATOM	22892	CD1	TYR	B	755	-13.964	73.570	127.390	0.00	0.00	C
ATOM	22893	CD2	TYR	B	755	-12.509	74.588	129.051	0.00	0.00	C
ATOM	22894	CE1	TYR	B	755	-12.951	73.697	126.429	0.00	0.00	C
ATOM	22895	CE2	TYR	B	755	-11.487	74.707	128.088	0.00	0.00	C
ATOM	22896	CZ	TYR	B	755	-11.715	74.273	126.769	0.00	0.00	C
ATOM	22897	OH	TYR	B	755	-10.784	74.426	125.803	0.00	0.00	O
ATOM	22898	HN	TYR	B	755	-15.045	76.809	129.240	0.00	0.00	H
ATOM	22899	HCA	TYR	B	755	-16.106	75.103	128.312	0.00	0.00	H
ATOM	22900	HCB	TYR	B	755	-14.516	74.062	130.707	0.00	0.00	H
ATOM	22901	HCB	TYR	B	755	-15.267	72.911	129.640	0.00	0.00	H
ATOM	22902	HCD1	TYR	B	755	-14.856	73.150	127.116	0.00	0.00	H
ATOM	22903	HCD2	TYR	B	755	-12.338	74.925	129.997	0.00	0.00	H
ATOM	22904	HCE1	TYR	B	755	-13.129	73.384	125.477	0.00	0.00	H
ATOM	22905	HCE2	TYR	B	755	-10.586	75.119	128.341	0.00	0.00	H
ATOM	22906	HOH	TYR	B	755	-9.966	74.936	125.934	0.00	0.00	H
ATOM	22907	N	GLU	B	756	-17.830	73.325	129.502	0.00	0.00	N
ATOM	22908	CA	GLU	B	756	-19.041	72.684	129.948	0.00	0.00	C
ATOM	22909	C	GLU	B	756	-20.243	73.525	129.729	0.00	0.00	C
ATOM	22910	O	GLU	B	756	-21.416	73.109	129.879	0.00	0.00	O
ATOM	22911	CB	GLU	B	756	-18.850	72.197	131.419	0.00	0.00	C
ATOM	22912	CG	GLU	B	756	-19.888	71.139	131.898	0.00	0.00	C
ATOM	22913	CD	GLU	B	756	-19.647	70.661	133.271	0.00	0.00	C
ATOM	22914	OE1	GLU	B	756	-18.603	70.039	133.561	0.00	0.00	O
ATOM	22915	OE2	GLU	B	756	-20.488	70.846	134.177	0.00	0.00	O
ATOM	22916	HN	GLU	B	756	-17.237	72.786	128.959	0.00	0.00	H
ATOM	22917	HCA	GLU	B	756	-19.161	71.803	129.313	0.00	0.00	H
ATOM	22918	HCB	GLU	B	756	-17.853	71.751	131.509	0.00	0.00	H
ATOM	22919	HCB	GLU	B	756	-18.879	73.062	132.085	0.00	0.00	H
ATOM	22920	HCG	GLU	B	756	-20.891	71.564	131.854	0.00	0.00	H
ATOM	22921	HCG	GLU	B	756	-19.861	70.272	131.235	0.00	0.00	H
TER	22922	GLU	B	756							
HETATM	22923	C11	GLC	X	44	9.138	60.113	132.876	0.00	0.00	C
HETATM	22924	C12	GLC	X	44	10.683	60.137	132.687	0.00	0.00	C
HETATM	22925	N13	GLC	X	44	11.441	60.865	133.680	0.00	0.00	N
HETATM	22926	C14	GLC	X	44	10.942	60.656	131.239	0.00	0.00	C
HETATM	22927	O15	GLC	X	44	12.352	60.840	131.035	0.00	0.00	O
HETATM	22928	C16	GLC	X	44	10.349	59.653	130.208	0.00	0.00	C
HETATM	22929	O17	GLC	X	44	10.392	60.156	128.860	0.00	0.00	O
HETATM	22930	C18	GLC	X	44	8.900	59.195	130.596	0.00	0.00	C
HETATM	22931	O19	GLC	X	44	8.620	59.104	132.007	0.00	0.00	O
HETATM	22932	C20	GLC	X	44	8.592	57.778	130.035	0.00	0.00	C
HETATM	22933	O21	GLC	X	44	7.527	57.093	130.720	0.00	0.00	O
HETATM	22934	C22	GLC	X	44	12.304	60.277	134.552	0.00	0.00	C
HETATM	22935	O23	GLC	X	44	12.336	58.935	134.689	0.00	0.00	O
HETATM	22936	C24	GLC	X	44	13.253	60.998	135.406	0.00	0.00	C
HETATM	22937	H25	GLC	X	44	10.436	61.616	131.112	0.00	0.00	H
HETATM	22938	H26	GLC	X	44	9.822	60.958	128.781	0.00	0.00	H
HETATM	22939	H27	GLC	X	44	12.495	61.186	130.122	0.00	0.00	H
HETATM	22940	H28	GLC	X	44	11.022	58.791	130.231	0.00	0.00	H
HETATM	22941	H29	GLC	X	44	8.193	59.912	130.181	0.00	0.00	H
HETATM	22942	H30	GLC	X	44	9.465	57.134	130.153	0.00	0.00	H
HETATM	22943	H31	GLC	X	44	8.395	57.848	128.964	0.00	0.00	H
HETATM	22944	H32	GLC	X	44	6.781	57.714	130.874	0.00	0.00	H
HETATM	22945	H33	GLC	X	44	10.996	59.087	132.702	0.00	0.00	H
HETATM	22946	H34	GLC	X	44	11.370	61.831	133.683	0.00	0.00	H
HETATM	22947	H35	GLC	X	44	14.249	60.598	135.244	0.00	0.00	H
HETATM	22948	H36	GLC	X	44	13.000	60.842	136.452	0.00	0.00	H
HETATM	22949	H37	GLC	X	44	13.261	62.064	135.186	0.00	0.00	H
HETATM	22950	H38	GLC	X	44	8.690	61.099	132.700	0.00	0.00	H
HETATM	22951	N	SER	B	530	8.224	61.340	136.227	0.00	0.00	N
HETATM	22952	CA	SER	B	530	7.074	60.919	135.465	0.00	0.00	C
HETATM	22953	C	SER	B	530	5.883	60.604	136.298	0.00	0.00	C
HETATM	22954	O	SER	B	530	4.757	60.719	135.766	0.00	0.00	O
HETATM	22955	CB	SER	B	530	7.405	59.666	134.584	0.00	0.00	C
HETATM	22956	OG	SER	B	530	8.792	59.616	134.166	0.00	0.00	O
HETATM	22957	H01	SER	B	530	9.038	60.834	136.120	0.00	0.00	H
HETATM	22958	H02	SER	B	530	6.812	61.747	134.797	0.00	0.00	H



HETATM22959	H03	SER B	530	6.701	59.571	133.749	0.00	0.00	H
HETATM22960	H04	SER B	530	7.283	58.771	135.196	0.00	0.00	H
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## References

1. M. G. Vander Heiden, L. C. Cantley, C. B. Thompson, Understanding the Warburg effect: The metabolic requirements of cell proliferation. *Science* **324**, 1029 (2009). [doi:10.1126/science.1160809](https://doi.org/10.1126/science.1160809) [Medline](#)
2. R. A. Cairns, I. S. Harris, T. W. Mak, Regulation of cancer cell metabolism. *Nat. Rev. Cancer* **11**, 85 (2011). [doi:10.1038/nrc2981](https://doi.org/10.1038/nrc2981) [Medline](#)
3. A. J. Levine, A. M. Puzio-Kuter, The control of the metabolic switch in cancers by oncogenes and tumor suppressor genes. *Science* **330**, 1340 (2010). [doi:10.1126/science.1193494](https://doi.org/10.1126/science.1193494) [Medline](#)
4. G. W. Hart, M. P. Housley, C. Slawson, Cycling of O-linked  $\beta$ -N-acetylglucosamine on nucleocytoplasmic proteins. *Nature* **446**, 1017 (2007). [doi:10.1038/nature05815](https://doi.org/10.1038/nature05815) [Medline](#)
5. X. Yang *et al.*, Phosphoinositide signalling links O-GlcNAc transferase to insulin resistance. *Nature* **451**, 964 (2008). [doi:10.1038/nature06668](https://doi.org/10.1038/nature06668) [Medline](#)
6. C. Slawson, G. W. Hart, O-GlcNAc signalling: Implications for cancer cell biology. *Nat. Rev. Cancer* **11**, 678 (2011). [doi:10.1038/nrc3114](https://doi.org/10.1038/nrc3114) [Medline](#)
7. R. Dentin, S. Hedrick, J. Xie, J. Yates, 3rd, M. Montminy, Hepatic glucose sensing via the CREB coactivator CRTC2. *Science* **319**, 1402 (2008). [doi:10.1126/science.1151363](https://doi.org/10.1126/science.1151363) [Medline](#)
8. S. A. Caldwell *et al.*, Nutrient sensor O-GlcNAc transferase regulates breast cancer tumorigenesis through targeting of the oncogenic transcription factor FoxM1. *Oncogene* **29**, 2831 (2010). [doi:10.1038/onc.2010.41](https://doi.org/10.1038/onc.2010.41) [Medline](#)
9. T. P. Lynch *et al.*, Critical role of O-GlcNAc transferase in prostate cancer invasion, angiogenesis and metastasis. *J. Biol. Chem.* **287**, 11070 (2012). [doi:10.1074/jbc.M111.302547](https://doi.org/10.1074/jbc.M111.302547) [Medline](#)
10. J. E. Rexach *et al.*, Dynamic O-GlcNAc modification regulates CREB-mediated gene expression and memory formation. *Nat. Chem. Biol.* **8**, 253 (2012). [doi:10.1038/nchembio.770](https://doi.org/10.1038/nchembio.770) [Medline](#)
11. K. E. Wellen *et al.*, The hexosamine biosynthetic pathway couples growth factor-induced glutamine uptake to glucose metabolism. *Genes Dev.* **24**, 2784 (2010). [doi:10.1101/gad.1985910](https://doi.org/10.1101/gad.1985910) [Medline](#)
12. H. N. Moseley, A. N. Lane, A. C. Belshoff, R. M. Higashi, T. W. Fan, A novel deconvolution method for modeling UDP-N-acetyl-D-glucosamine biosynthetic pathways based on  $^{13}\text{C}$  mass isotopologue profiles under non-steady-state conditions. *BMC Biol.* **9**, 37 (2011). [doi:10.1186/1741-7007-9-37](https://doi.org/10.1186/1741-7007-9-37) [Medline](#)
13. Y. Sidorenko, A. Wahl, M. Dauner, Y. Genzel, U. Reichl, Comparison of metabolic flux distributions for MDCK cell growth in glutamine- and pyruvate-containing media. *Biotechnol. Prog.* **24**, 311 (2008). [doi:10.1021/bp0702673](https://doi.org/10.1021/bp0702673) [Medline](#)

14. R. Possemato *et al.*, Functional genomics reveal that the serine synthesis pathway is essential in breast cancer. *Nature* **476**, 346 (2011). [doi:10.1038/nature10350](https://doi.org/10.1038/nature10350) [Medline](#)
15. P. M. Clark *et al.*, Direct in-gel fluorescence detection and cellular imaging of O-GlcNAc-modified proteins. *J. Am. Chem. Soc.* **130**, 11576 (2008). [doi:10.1021/ja8030467](https://doi.org/10.1021/ja8030467) [Medline](#)
16. M. Sola-Penna, D. Da Silva, W. S. Coelho, M. M. Marinho-Carvalho, P. Zancan, Regulation of mammalian muscle type 6-phosphofructo-1-kinase and its implication for the control of the metabolism. *IUBMB Life* **62**, 791 (2010). [doi:10.1002/iub.393](https://doi.org/10.1002/iub.393) [Medline](#)
17. B. Ramakrishnan, P. K. Qasba, Structure-based design of  $\beta$  1,4-galactosyltransferase I ( $\beta$  4Gal-T1) with equally efficient N-acetylgalactosaminyltransferase activity: Point mutation broadens  $\beta$  4Gal-T1 donor specificity. *J. Biol. Chem.* **277**, 20833 (2002). [doi:10.1074/jbc.M111183200](https://doi.org/10.1074/jbc.M111183200) [Medline](#)
18. J. E. Rexach *et al.*, Quantification of O-glycosylation stoichiometry and dynamics using resolvable mass tags. *Nat. Chem. Biol.* **6**, 645 (2010). [doi:10.1038/nchembio.412](https://doi.org/10.1038/nchembio.412) [Medline](#)
19. N. E. Zachara *et al.*, Dynamic O-GlcNAc modification of nucleocytoplasmic proteins in response to stress. A survival response of mammalian cells. *J. Biol. Chem.* **279**, 30133 (2004). [doi:10.1074/jbc.M403773200](https://doi.org/10.1074/jbc.M403773200) [Medline](#)
20. R. P. Taylor *et al.*, Glucose deprivation stimulates O-GlcNAc modification of proteins through up-regulation of O-linked N-acetylglucosaminyltransferase. *J. Biol. Chem.* **283**, 6050 (2008). [doi:10.1074/jbc.M707328200](https://doi.org/10.1074/jbc.M707328200) [Medline](#)
21. C. Ferreras, E. D. Hernández, O. H. Martínez-Costa, J. J. Aragón, Subunit interactions and composition of the fructose 6-phosphate catalytic site and the fructose 2,6-bisphosphate allosteric site of mammalian phosphofructokinase. *J. Biol. Chem.* **284**, 9124 (2009). [doi:10.1074/jbc.M807737200](https://doi.org/10.1074/jbc.M807737200) [Medline](#)
22. X. Lu *et al.*, Cellular ATP depletion by LY309887 as a predictor of growth inhibition in human tumor cell lines. *Clin. Cancer Res.* **6**, 271 (2000). [Medline](#)
23. A. Yalcin, S. Telang, B. Clem, J. Chesney, Regulation of glucose metabolism by 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatases in cancer. *Exp. Mol. Pathol.* **86**, 174 (2009). [doi:10.1016/j.yexmp.2009.01.003](https://doi.org/10.1016/j.yexmp.2009.01.003) [Medline](#)
24. K. Bensaad *et al.*, TIGAR, a p53-inducible regulator of glycolysis and apoptosis. *Cell* **126**, 107 (2006). [doi:10.1016/j.cell.2006.05.036](https://doi.org/10.1016/j.cell.2006.05.036) [Medline](#)
25. A. Herrero-Mendez *et al.*, The bioenergetic and antioxidant status of neurons is controlled by continuous degradation of a key glycolytic enzyme by APC/C-Cdh1. *Nat. Cell Biol.* **11**, 747 (2009). [doi:10.1038/ncb1881](https://doi.org/10.1038/ncb1881) [Medline](#)
26. D. Anastasiou *et al.*, Inhibition of pyruvate kinase M2 by reactive oxygen species contributes to cellular antioxidant responses. *Science* **334**, 1278 (2011). [doi:10.1126/science.1211485](https://doi.org/10.1126/science.1211485) [Medline](#)

27. X. Tong, F. Zhao, C. B. Thompson, The molecular determinants of *de novo* nucleotide biosynthesis in cancer cells. *Curr. Opin. Genet. Dev.* **19**, 32 (2009). [doi:10.1016/j.gde.2009.01.002](https://doi.org/10.1016/j.gde.2009.01.002) [Medline](#)
28. P. P. Pandolfi *et al.*, Targeted disruption of the housekeeping gene encoding glucose 6-phosphate dehydrogenase (G6PD): G6PD is dispensable for pentose synthesis but essential for defense against oxidative stress. *EMBO J.* **14**, 5209 (1995). [Medline](#)
29. T. Fuhrer, D. Heer, B. Begemann, N. Zamboni, High-throughput, accurate mass metabolome profiling of cellular extracts by flow injection-time-of-flight mass spectrometry. *Anal. Chem.* **83**, 7074 (2011). [doi:10.1021/ac201267k](https://doi.org/10.1021/ac201267k) [Medline](#)
30. C. F. Teo *et al.*, Glycopeptide-specific monoclonal antibodies suggest new roles for O-GlcNAc. *Nat. Chem. Biol.* **6**, 338 (2010). [doi:10.1038/nchembio.338](https://doi.org/10.1038/nchembio.338) [Medline](#)
31. M. G. Vander Heiden *et al.*, Growth factors can influence cell growth and survival through effects on glucose metabolism. *Mol. Cell. Biol.* **21**, 5899 (2001). [doi:10.1128/MCB.21.17.5899-5912.2001](https://doi.org/10.1128/MCB.21.17.5899-5912.2001) [Medline](#)
32. C. Lois, E. J. Hong, S. Pease, E. J. Brown, D. Baltimore, Germline transmission and tissue-specific expression of transgenes delivered by lentiviral vectors. *Science* **295**, 868 (2002). [doi:10.1126/science.1067081](https://doi.org/10.1126/science.1067081) [Medline](#)
33. H. Deng *et al.*, Phosphorylation of Bad at Thr-201 by JNK1 promotes glycolysis through activation of phosphofructokinase-1. *J. Biol. Chem.* **283**, 20754 (2008). [doi:10.1074/jbc.M800024200](https://doi.org/10.1074/jbc.M800024200) [Medline](#)
34. J. M. S. Lemons *et al.*, Quiescent fibroblasts exhibit high metabolic activity. *PLoS Biol.* **8**, e1000514 (2010). [doi:10.1371/journal.pbio.1000514](https://doi.org/10.1371/journal.pbio.1000514) [Medline](#)
35. K. Banaszak *et al.*, The crystal structures of eukaryotic phosphofructokinases from baker's yeast and rabbit skeletal muscle. *J. Mol. Biol.* **407**, 284 (2011). [doi:10.1016/j.jmb.2011.01.019](https://doi.org/10.1016/j.jmb.2011.01.019) [Medline](#)
36. A. K. Rappe, W. A. Goddard 3rd, Charge equilibration for molecular dynamics simulations. *J. Phys. Chem.* **95**, 3358 (1991). [doi:10.1021/j100161a070](https://doi.org/10.1021/j100161a070)
37. A. Ghosh, C. S. Rapp, R. A. Friesner, Generalized Born model based on a surface integral formulation. *J. Phys. Chem. B* **102**, 10983 (1998). [doi:10.1021/jp982533o](https://doi.org/10.1021/jp982533o)
38. P. M. Kekenos-Huskey, *A Monte Carlo-Based Torsion Construction Algorithm for Ligand Design* (California Institute of Technology, Pasadena, CA, 2009).
39. V. W. Tak Kam, W. A. Goddard III, Flat-bottom strategy for improved accuracy in protein side-chain placements. *J. Chem. Theory Comput.* **4**, 2160 (2008). [doi:10.1021/ct800196k](https://doi.org/10.1021/ct800196k)
40. J. C. Rathmell *et al.*, Akt-directed glucose metabolism can prevent Bax conformation change and promote growth factor-independent survival. *Mol. Cell. Biol.* **23**, 7315 (2003). [doi:10.1128/MCB.23.20.7315-7328.2003](https://doi.org/10.1128/MCB.23.20.7315-7328.2003) [Medline](#)

41. J. Munger *et al.*, Systems-level metabolic flux profiling identifies fatty acid synthesis as a target for antiviral therapy. *Nat. Biotechnol.* **26**, 1179 (2008).  
[doi:10.1038/nbt.1500](https://doi.org/10.1038/nbt.1500) [Medline](#)
42. J. M. Buescher, S. Moco, U. Sauer, N. Zamboni, Ultrahigh performance liquid chromatography-tandem mass spectrometry method for fast and robust quantification of anionic and aromatic metabolites. *Anal. Chem.* **82**, 4403 (2010).  
[doi:10.1021/ac100101d](https://doi.org/10.1021/ac100101d) [Medline](#)
43. W. N. Lee *et al.*, Mass isotopomer study of the nonoxidative pathways of the pentose cycle with [1,2-<sup>13</sup>C<sub>2</sub>]glucose. *Am. J. Physiol.* **274**, E843 (1998). [Medline](#)
44. A. E. Vaughn, M. Deshmukh, Glucose metabolism inhibits apoptosis in neurons and cancer cells by redox inactivation of cytochrome *c*. *Nat. Cell Biol.* **10**, 1477 (2008). [doi:10.1038/ncb1807](https://doi.org/10.1038/ncb1807) [Medline](#)